

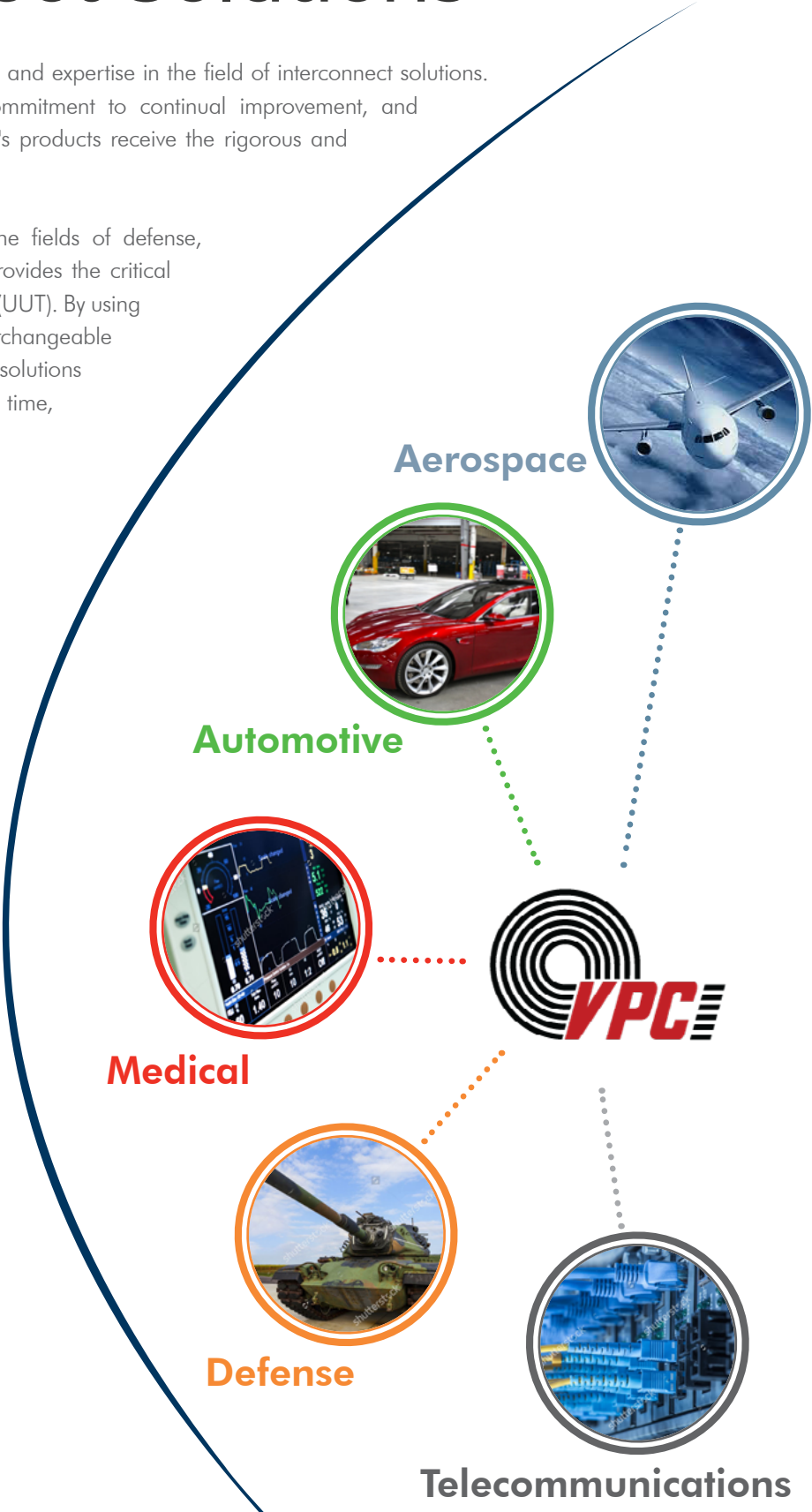
Interconnect Solutions

VPC offers over 60 years of unparalleled experience and expertise in the field of interconnect solutions. VPC's commitment to uncompromising quality, commitment to continual improvement, and exceptional value means you can rest assured VPC's products receive the rigorous and expedient testing you demand.

Used by test and measurement professionals in the fields of defense, aerospace, automotive, medical, and more, VPC provides the critical connection between the tester and the unit under test (UUT). By using a receiver on the tester side and mating it with an interchangeable test adapter (ITA), VPC's modular and scalable solutions allow multiple types of I/O to be easily mated at one time, simplifying the test process.

Why VPC?

- Protect and extend the life of expensive test equipment
- Increase throughput by quickly and easily adapting tester to multiple UUTs
- Both standard and customized solutions to meet your specific needs
- A dedicated team of engineers to help you design and meet your system requirements
- Simplified cable and patchcord management
- Wiring configuration for virtually any type of test and measurement instrumentation



NOTICE: This catalog was last printed in 2017 and most information contained within reflects the information available at that time. While minor edits and updates have been made since then to the digital copy, information including available parts, part numbers, technical specs, drawings, performance claims, etc. may no longer be accurate or require update. For the most up-to-date information please refer to VPC's website at vpc.com or contact a Field Application Engineer via the Contact Us link at vpc.com.

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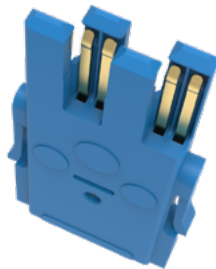
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Snap-In-Modular (SIM) Solutions

What is SIM Technology?

The Snap-In-Modular (SIM) insert is a proprietary snap-in technology that uses latches to anchor the insert to a SIM module. The inserts for VTAC, QuadraPaddle, and VTAC Right Angle are each interchangeable in 90 Series SIM modules and i2 MX connectors.

Whether you are using patchcords or custom PCBs in your solution, SIM inserts provide the opportunity to use HSD contacts in broadband applications.

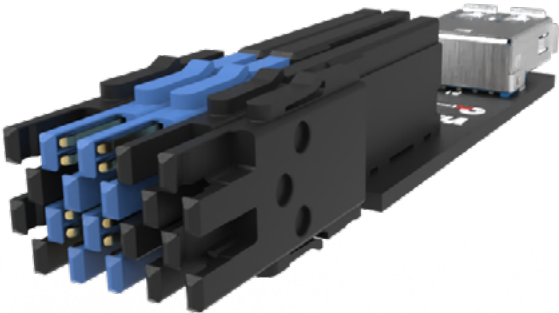


VTAC Insert

High Speed PCB Connections

VTAC also comes in a right angle PCB configuration, the VTAC Right Angle insert. It is ideal for a variety of applications that require a wireless solution for your project.

VTAC Right Angle is sold as part of a kit to help connect custom PCBs to a 90 Series receiver module or i2 MX ITA. These contacts are capable of data transfer rates of more than 10 Gbps.



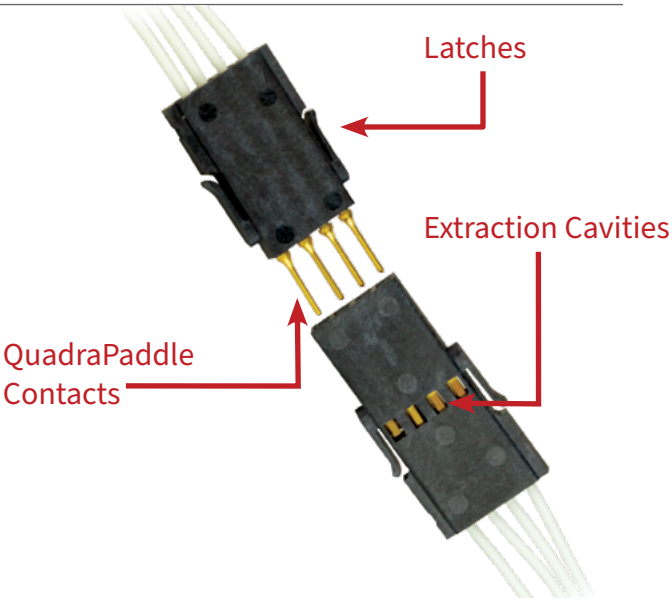
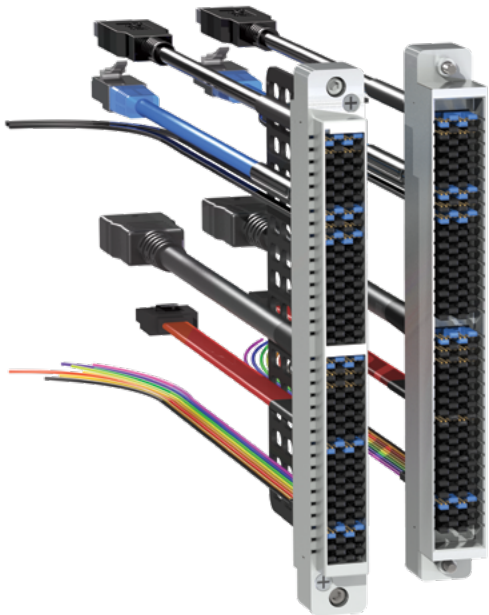
Useful Applications

VTAC Right Angle is ideal for Pull Thru applications. Connecting your PCB to your ITA, you can harness the speeds required for rapid data acquisition.

Due to the design of the VTAC Right Angle, you can still configure your ITA to use patchcords since the right angle inserts only consume a fraction of a traditional PCB adapter.

SIM QuadraPaddle Options

Not every application requires high speed data transfer. We also offer a SIM QuadraPaddle insert for signal or lower speed applications. You can outfit an i2 MX and 90 Series with both high and low speed, giving you increased scalability and versatility to meet any project's needs.



Use SIM Anywhere You Use VTAC

The added variety of contacts give you more options to leverage high speed technology in your solution.

The 90 Series SIM modules have 34 positions available to accept SIM VTAC HSD, SIM VTAC Right Angle, or SIM QuadraPaddle. Alternatively, the i2 MX connectors have 22 positions available for solutions where a smaller footprint is required.

Compatible with COTS Connectors

Whether you choose patchcords or right angle inserts for a PCB solution, all SIM inserts are compatible with commercial-off-the-shelf (COTS) connectors, including:

- USB 3.0
- HDMI
- Mini-SAS HD
- RJ45
- VHDCI
- RosenbergerHSD
- DVI
- SATA
- QSFP
- InfiniBand

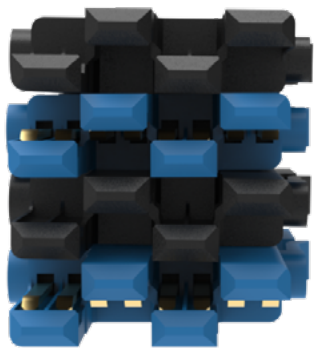


SIM Technology

Each of the Snap-In-Modular (SIM) inserts share the same footprint, which makes them all compatible with VPC's i2 MX connector and 90 Series SIM modules. The added compatibility means more options to intermix insert types within a single module and to conduct tests at a range of signal speeds.

Features and Benefits

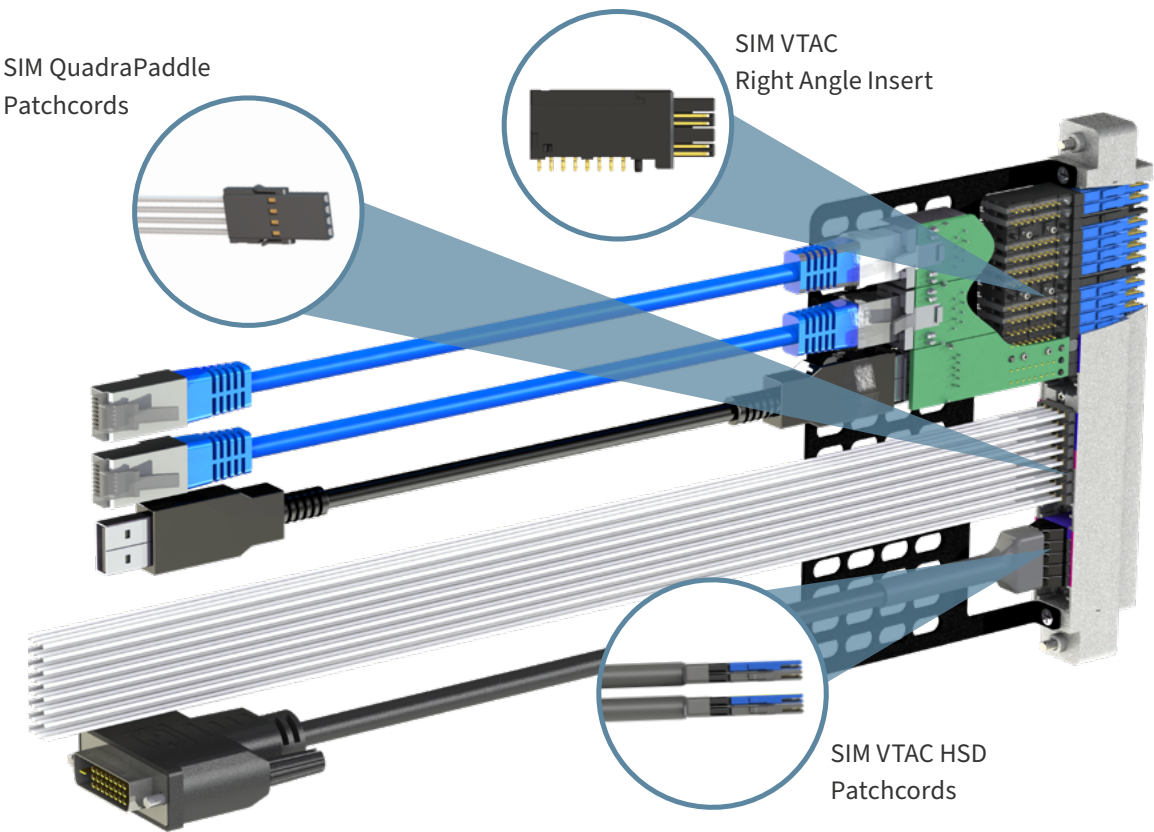
- Stackable I/O in a small footprint
- Transfer data at speeds more than 10 Gbps (12.5+ Gbps with patchcords)
- Precision-welded patchcords and PCB configuration eliminates signal crosstalk from other contacts and ensures signal integrity
- Opportunity to use both patchcords and custom PCBs in the same solution
- Easy to remove contacts to allow for trouble-shooting



VTAC

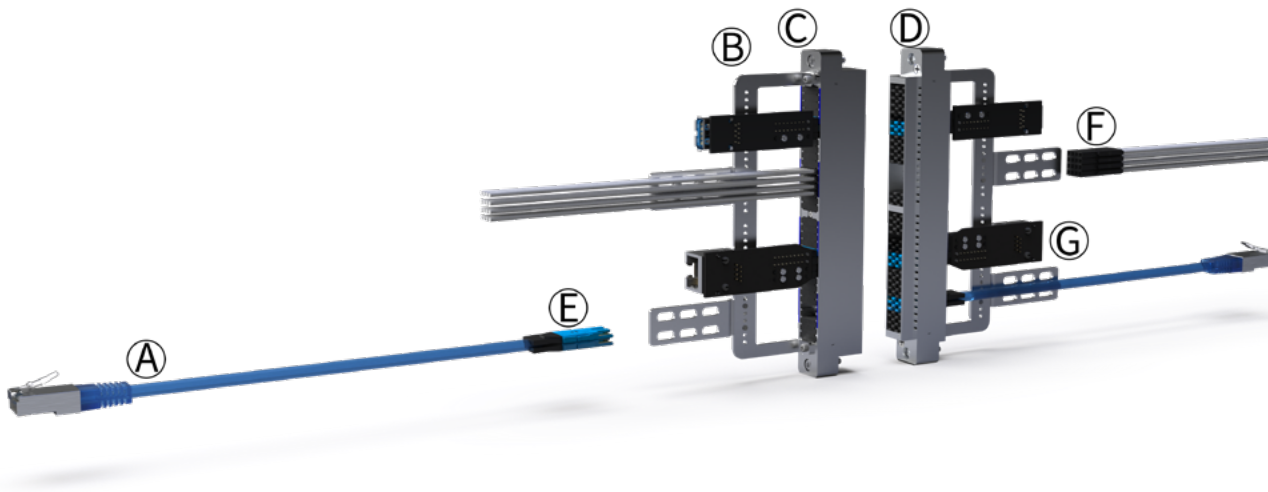
SIM QuadraPaddle Patchcords

SIM VTAC Right Angle Insert



SIM Receiver Configuration

SIM 90 Series Configuration

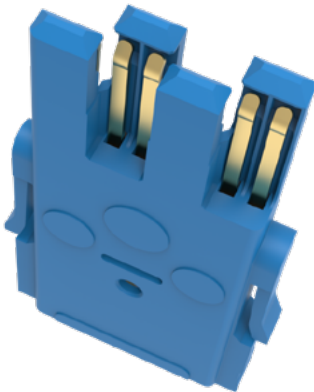


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|--------------------------------|--|
| A.RCV/ITA VTAC HSD Patchcords* | E. SIM VTAC HSD Inserts |
| B.Strain Relief Plate | F. SIM RCV/ITA QuadraPaddle Flying Leads |
| C. SIM ITA Module | G. VTAC PCB Adapter |
| D.SIM ITA Module | |

Part #	Description
SIM INSERTS - RECEIVER/ITA	
510 180 101	Signal Insert, Receiver, SIM QuadraPaddle, 4 Position
510 181 101	Signal Insert, ITA, SIM QuadraPaddle, 4 Position
610 151 101	High Speed Insert, Receiver/ITA, SIM, 12.5 Gbps, 50µ", VTAC HSD (Only Available in Patchcords)
610 151 103	High Speed Insert, Receiver/ITA, SIM, 50µ", VTAC HSD, Double Ended Insert (For Use with Right Angle Only)
610 151 104	High Speed Insert, Receiver/ITA, SIM, 50µ", VTAC HSD, Right Angle Insert
610 151 105	High Speed Insert, Receiver/ITA, SIM, 50µ", VTAC HSD, Retention Insert (For Use with Right Angle Only)
610 151 106	High Speed Insert, Receiver/ITA, SIM, 50µ", VTAC HSD Kit (For Use with Right Angle Only)
SIM MODULES	
510 170 101	SIM Module, Receiver, 34 Position
510 171 101	SIM Module, ITA, 34 Position
CABLE ASSEMBLIES	
7-152 924 000-036	Cable Assembly, Receiver, SIM QuadraPaddle Insert, 36", Flying Leads
7-152 924 000-072	Cable Assembly, Receiver, SIM QuadraPaddle Insert, 72", Flying Leads
7-151 924 000-036	Cable Assembly, ITA, SIM QuadraPaddle Insert, 36", Flying Leads
7-151 924 000-072	Cable Assembly, ITA, SIM QuadraPaddle Insert, 72", Flying Leads
ACCESSORIES	
510 109 568	Strain Relief Plate for 34 Position Receiver/ITA SIM Module
610 151 102	Blank Insert Kit, Receiver/ITA, SIM VTAC HSD, 10 Pieces

VTAC Insert

Contact Specifications	
Data Rate	12.5+ Gbps per differential pair
Crosstalk	30 dB min
Characteristic Impedance	100+/- 10 Ω - differential pair 50+/- 5 Ω - single ended
Operating Voltage and Current	3 amps max. continuous (350 volts max.)
Contact Resistance	40 mΩ max. per mated contact
Insulations Resistance	1000 MΩ min.
Dielectric Withstanding Voltage	1050 VDC RMS min.
Mating Force	12 oz max. [340 g] per insert
Insert Material	Outer shell - black LCP Male contact - alloy 7025
Contact Termination	Welded
Contact Plating	50 μ" Au over 100 μ" Ni

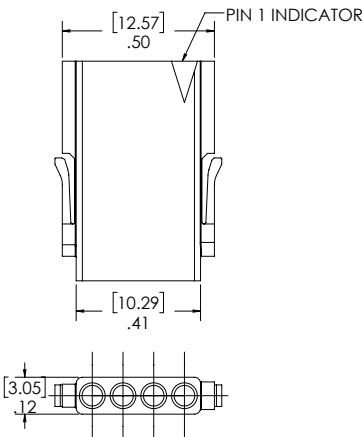
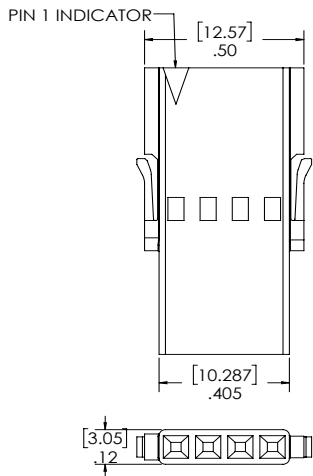


Receiver/ITA Contact

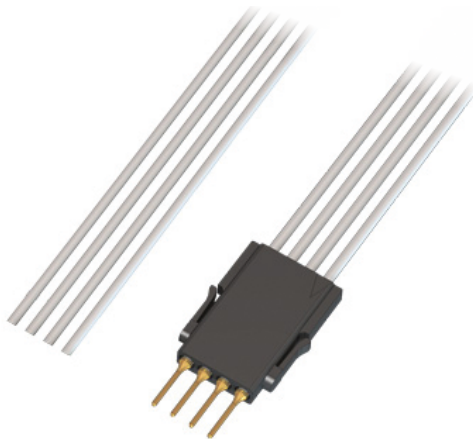
High Speed Insert, Receiver/ITA, SIM, 12.5 Gbps, 50μ", VTAC • Part # 610 151 101

Part #	Description
VTAC PATCHCORDS - RECEIVER	
7-142702731-0XX	Signal Patchcord, Receiver, SIM VTAC HSD, Rosenberger HSD Plug, 1 Position
7-142877655-0XX	Signal Patchcord, Receiver, SIM VTAC HSD, 36", DVI-D Male Dual Link, 5 Position
7-142890690-0XX	Signal Patchcord, Receiver, SIM VTAC HSD, USB 3.0 Type A Male, 2 Position
7-142890691-0XX	Signal Patchcord, Receiver, SIM VTAC HSD, USB 3.0 Type A Female, 2 Position
7-142890692-0XX	Signal Patchcord, Receiver, SIM VTAC HSD, USB 3.0 Type B Male, 2 Position
7-142891693-0XX	Signal Patchcord, Receiver, SIM VTAC HSD, HDMI Male, 3 Position
7-142892700-0XX	Signal Patchcord, Receiver, SIM VTAC HSD, SATA Male, 1 Position
7-142893694-0XX	Signal Patchcord, Receiver, SIM VTAC HSD, RJ45 Plug, 2 Position
7-142861000-0XX	Signal Patchcord, Receiver, SIM VTAC HSD, Twinax Flying Leads, 1 Position
7-142895000-0XX	Signal Patchcord, Receiver, SIM VTAC HSD, 24 AWG, Flying Leads, 1 Position
7-142896722-0XX	Signal Patchcord, Receiver, SIM VTAC HSD, Mini-SAS HD Plug, 4 Position
VTAC PATCHCORDS - ITA	
7-141702731-0XX	Signal Patchcord, ITA, SIM VTAC HSD, Rosenberger HSD Plug, 1 Position
7-141877655-0XX	Signal Patchcord, ITA, SIM VTAC HSD, 36", DVI-D Male Dual Link, 5 Position
7-141890690-0XX	Signal Patchcord, ITA, SIM VTAC HSD, USB 3.0 Type A Male, 2 Position
7-141890691-0XX	Signal Patchcord, ITA, SIM VTAC HSD, USB 3.0 Type A Female, 2 Position
7-141890692-0XX	Signal Patchcord, ITA, SIM VTAC HSD, USB 3.0 Type B Male, 2 Position
7-141891693-0XX	Signal Patchcord, ITA, SIM VTAC HSD, HDMI Male, 3 Position
7-141892700-0XX	Signal Patchcord, ITA, SIM VTAC HSD, SATA Male, 1 Position
7-141893694-0XX	Signal Patchcord, ITA, SIM VTAC HSD, RJ45 Plug, 2 Position
7-141861000-0XX	Signal Patchcord, ITA, SIM VTAC HSD, Twinax Flying Leads, 1 Position
7-141895000-0XX	Signal Patchcord, ITA, SIM VTAC HSD, 24 AWG, Flying Leads, 1 Position
7-141896722-0XX	Signal Patchcord, ITA, SIM VTAC HSD, Mini-SAS HD Plug, 4 Position

SIM QuadraPaddle Insert



Signal Insert, Receiver, SIM QuadraPaddle, 4 Position • Part # 510 180 101	Signal Insert, ITA, SIM QuadraPaddle, 4 Position • Part # 510 181 101
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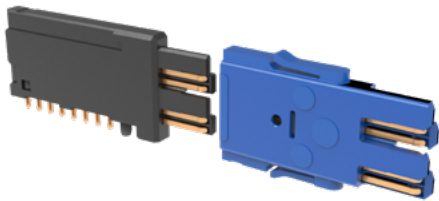


Specifications	
Insert Material	Black liquid crystal polymer
Operating Temperature	Operating • -55° C to 125° C Non-operating • -65° C to 225° C
Available Contact Positions	4
SIM Module Insert Positions Needed	1

The SIM QuadraPaddle insert was added to the SIM product family to bring more versatility. Sharing the same footprint as the SIM VTAC HSD insert, each SIM QuadraPaddle insert can fill one SIM insert slot within a SIM 90 Series module or i2 MX.

SIM VTAC Right Angle Kit

Contact Specifications	
Data Rate	10+ Gbps per differential pair
Crosstalk	30 dB min
Characteristic Impedance	100+/- 10 Ω - differential pair 50+/- 5 Ω - single ended
Operating Voltage and Current	3 amps max. continuous (350 volts max.)
Contact Resistance	40 m Ω max. per mated contact
Insulation Resistance	1000 M Ω min.
Dielectric Withstanding Voltage	1050 VDC RMS min.
Mating Force	12 oz max. [340 g] per insert
Insert Material	Outer shell: black LCP Male contact: alloy 7025
Contact Plating	50 μ " Au over 100 μ " Ni
This two-piece kit includes Part # 610 151 103 and Part # 610 151 104 to allow custom PCBs to attach to SIM VTAC HSD inserts.	



SIM VTAC Right Angle Kit (Receiver/ITA)
Part # 610 151 106

Part #	Description
SIM INSERTS	
610 151 103	High Speed Insert, Receiver/ITA, SIM, 50 μ ", VTAC HSD, Double Ended Insert (For Use with Right Angle Only)
610 151 104	High Speed Insert, Receiver/ITA, SIM, 50 μ ", VTAC HSD, Right Angle Insert
610 151 105	High Speed Insert, Receiver/ITA, SIM, 50 μ ", VTAC HSD, Retention Insert (For Use with Right Angle Only)
610 151 106	High Speed Insert, Receiver/ITA, SIM, 50 μ ", VTAC HSD Kit (For Use with Right Angle Only)
TOOLS	
910 112 130	Extraction Tool, SIM, Receiver/ITA
910 112 132	Tool, Insertion, Right Angle, VTAC HSD (For Use with Right Angle Only)
ACCESSORY	
610 151 102	Blank Insert Kit, Receiver/ITA, SIM VTAC HSD, 10 Pieces

Fully Loaded SIM VTAC Right Angle Kit

Contact Specifications	
Data Rate	10+ Gbps per differential pair
Crosstalk	30 dB min
Characteristic Impedance	100+/- 10 Ω - differential pair 50+/- 5 Ω - single-ended
Operating Voltage and Current	3 amps max. continuous (350 volts max.)
Contact Resistance	40 m Ω max. per mated contact
Insulation Resistance	1000 M Ω min.
Dielectric Withstanding Voltage	1050 VDC RMS min.
Mating Force	12 oz max. [340 g] per insert
Insert Material	Outer shell: black LCP Male contact: alloy 7025
Contact Plating	50 μ " Au over 100 μ " Ni
This fully loaded SIM module kit comes with 34 SIM VTAC HSD double-ended and VTAC Right Angle inserts Part # 610 151 106. The module kit comes with two PCB brackets to help to secure and reinforce the module to a PCB. It also comes with two 2-56 captive module screws, and four M2 x 5 mm flathead screws.	



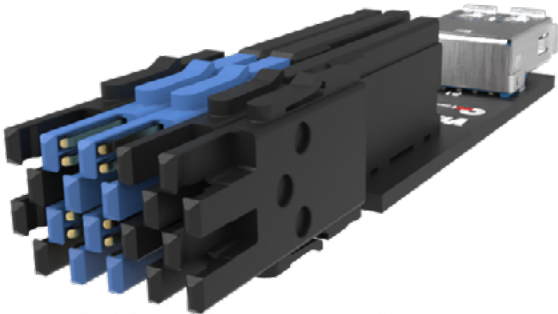
34 Position Receiver SIM Module
Part # 510 170 102



34 Position ITA SIM Module
Part # 510 171 102

Part #	Description
PCB ADAPTERS	
510 170 102	SIM Module, Receiver, Fully Loaded with SIM VTAC Double Ended and Right Angle Inserts (610 151 106)
510 171 102	SIM Module, ITA, Fully Loaded with SIM VTAC Double Ended and Right Angle Inserts (610 151 106)
SIM INSERTS	
610 151 103	High Speed Insert, Receiver/ITA, SIM, 50 μ ", VTAC HSD, Double Ended Insert (For Use with Right Angle Only)
610 151 104	High Speed Insert, Receiver/ITA, SIM, 50 μ ", VTAC HSD, Right Angle Insert
610 151 105	High Speed Insert, Receiver/ITA, SIM, 50 μ ", VTAC HSD, Retention Insert (For Use with Right Angle Only)
610 151 106	High Speed Insert, Receiver/ITA, SIM, 50 μ ", VTAC HSD Kit (For Use with Right Angle Only)
TOOLS	
910 112 130	Extraction Tool, SIM, Receiver/ITA
910 112 132	Tool, Insertion, Right Angle, VTAC HSD, (For Use with Right Angle Only)
ACCESSORY	
610 151 102	Blank Insert Kit, Receiver/ITA, SIM VTAC HSD, 10 Pieces

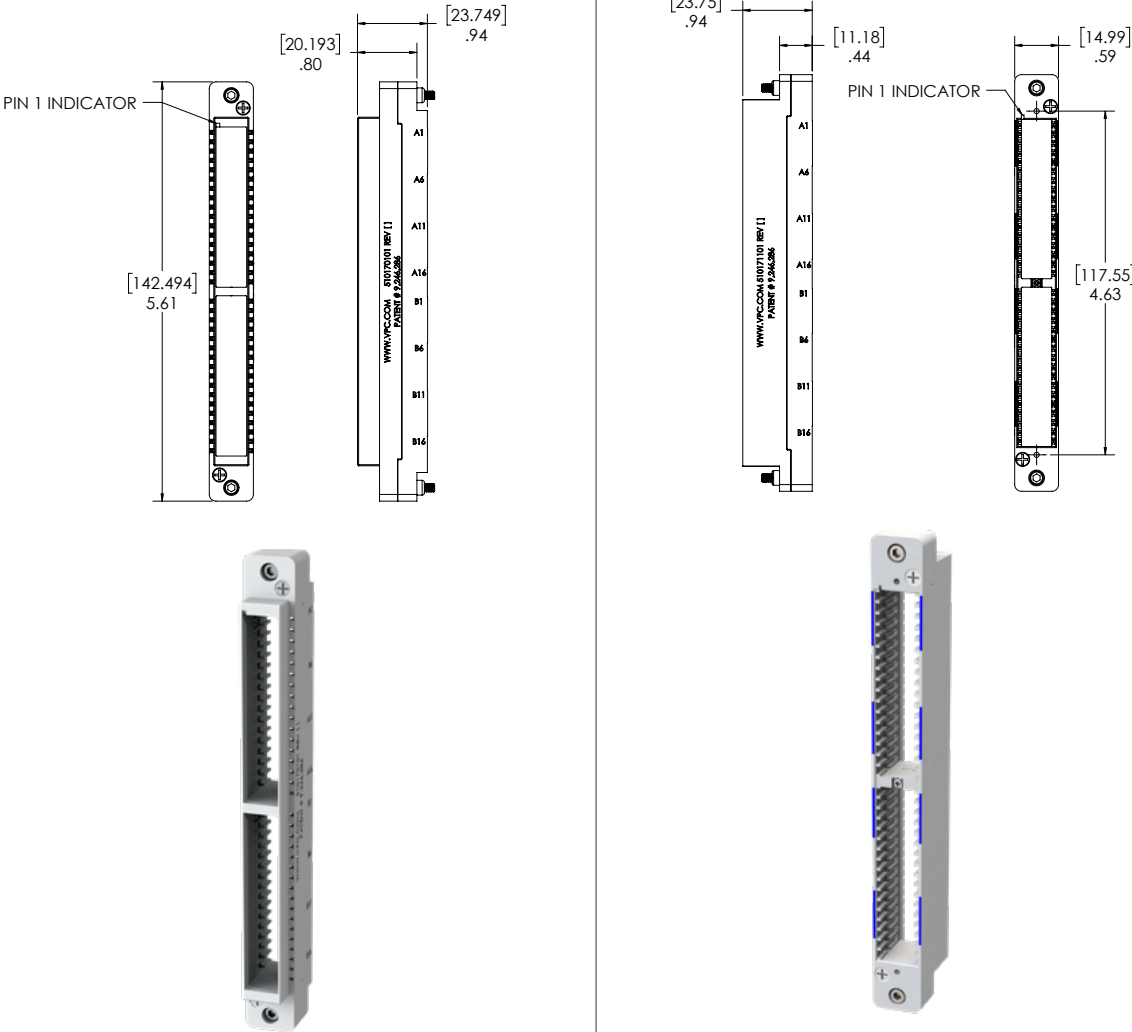
PCB Adapters

Contact Specifications	
Data Rate	10+ Gbps per differential pair
Crosstalk	30 dB min
Characteristic Impedance	100+/- 10 Ω - differential pair 50+/- 5 Ω - single ended
Operating Voltage and Current	3 amps max. continuous (350 volts max.)
Contact Resistance	40 m Ω max. per mated contact
Insulation Resistance	1000 M Ω min.
Dielectric Withstanding Voltage	1050 VDC RMS min.
Mating Force	12 oz max. [340 g] per insert
Insert Material	Outer shell: blue LCP Male contact: alloy 7025
Contact Termination	Right angle pressfit
Contact Plating	50 μ " Au over 100 μ " Ni
 5 Position PCB Adapter Receiver ITA 510 170 104 510 171 104	
Part #	Description
PCB ADAPTERS	
510 170 104	PCB Adapter, Receiver, SIM, VTAC HSD, 5 Position, to 1 USB 3.0
510 171 104	PCB Adapter, ITA, SIM, VTAC HSD, 5 Position, to 1 USB 3.0
510 170 105	PCB Adapter, Receiver, SIM, VTAC HSD, 6 Position, to 1 Cat 6
510 171 105	PCB Adapter, ITA, SIM, VTAC HSD, 6 Position, to 1 Cat 6
SIM INSERTS	
610 151 103	High Speed Insert, Receiver/ITA, SIM, 50 μ ", VTAC HSD, Double Ended Insert (For Use with Right Angle Only)
610 151 104	High Speed Insert, Receiver/ITA, SIM, 50 μ ", VTAC HSD, Right Angle Insert
610 151 105	High Speed Insert, Receiver/ITA, SIM, 50 μ ", VTAC HSD, Retention Insert (For Use with Right Angle Only)
TOOL	
910 112 130	Extraction Tool, SIM, Receiver/ITA
ACCESSORY	
610 151 102	Blank Insert Kit, Receiver/ITA, SIM VTAC HSD, 10 Pieces

PCB Adapters

Contact Specifications	
Data Rate	10+ Gbps per differential pair
Operating Current	2 amps
Operating Temperature	-55° C to 105° C
Max. Current	3 amps max. continuous (350 volts max.)
Dielectric Withstanding Voltage	300 VDC RMS min.
Insulation Resistance	1000 M Ω min.
Receiver PCB Adapter Part # 510 170 103  ITA PCB Adapter Part # 510 171 103 	
Part #	Description
PCB ADAPTERS	
510 170 103	PCB Adapter, Receiver, SIM, VTAC HSD, 34 Position, to 6 USB 3.0
510 171 103	PCB Adapter, ITA, SIM, VTAC HSD, 34 Position, to 6 USB 3.0
SIM INSERTS	
610 151 103	High Speed Insert, Receiver/ITA, SIM, 50 μ ", VTAC HSD, Double Ended Insert (For Use with Right Angle Only)
610 151 104	High Speed Insert, Receiver/ITA, SIM, 50 μ ", VTAC HSD, Right Angle Insert
610 151 105	High Speed Insert, Receiver/ITA, SIM, 50 μ ", VTAC HSD, Retention Insert (For Use with Right Angle Only)
TOOL	
910 112 130	Extraction Tool, SIM, Receiver/ITA
ACCESSORY	
610 151 102	Blank Insert Kit, Receiver/ITA, SIM VTAC HSD, 10 Pieces

34 Position SIM Module Inserts



SIM Module, Receiver, 34 Position • **Part # 510 170 101**

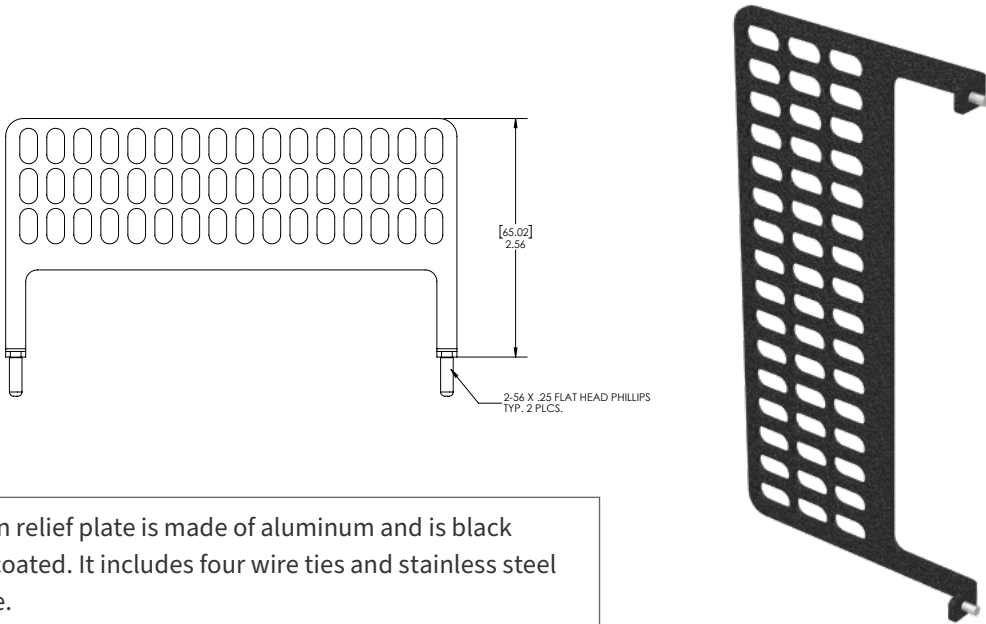
ITA • **Part # 510 171 101**

Specifications

Material	Nickel plated zinc
Operating Temperature	-40°C to 125°C
Available Contact Positions	34
Module Positions Needed	1

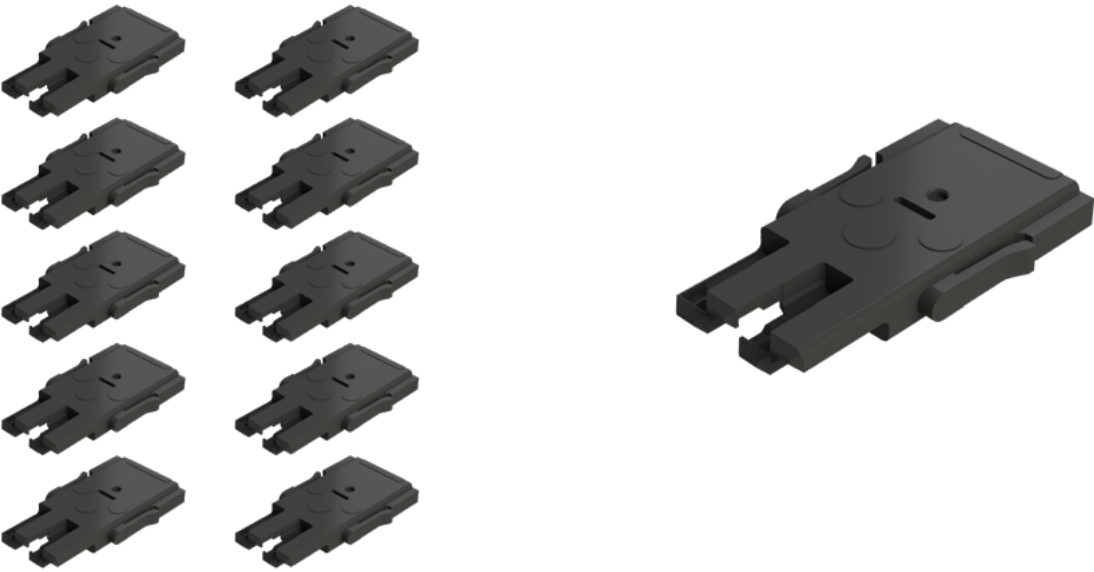
The 90 Series SIM receiver and ITA modules can accept up to 34 SIM inserts, including: SIM VTAC HSD, SIM QuadraPaddle, and SIM VTAC Right Angle.

SIM Solutions • Accessories



The strain relief plate is made of aluminum and is black powder coated. It includes four wire ties and stainless steel hardware.

Strain Relief Plate, Receiver/ITA, SIM Module • **Part # 510 109 568**



Blank inserts are for unused SIM insert slots. One blank insert fills a SIM single insert slot and fits in either receiver or ITA 90 Series modules or the i2 MX. Ten blank inserts are included per part number.

Blank Insert Kit Receiver/ITA, SIM, 10 Pieces • **Part # 610 151 102**

Endless Possibilities

with i2 Micro iCon

Innovative Engagement Design

- Spring-locking tabs fasten over latching post for secure engagement
- Keying pins and rectangular locking mechanism ensure even and precise engagement
- Removable ITA backshell enables easy wire access



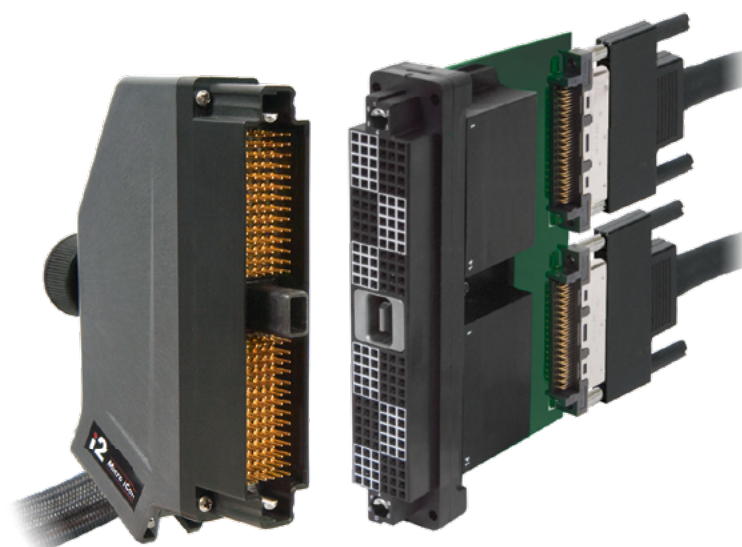
Exceptional Capabilities

- Options include: i2 wired, i2 direct to PCB, i2 to flex print, and i2 to PCB adapter
- High-density signal connector offers 168 signal positions
- i2 Hybrid connector offers 120 signal and 12 Micro Power/Micro Coaxial positions



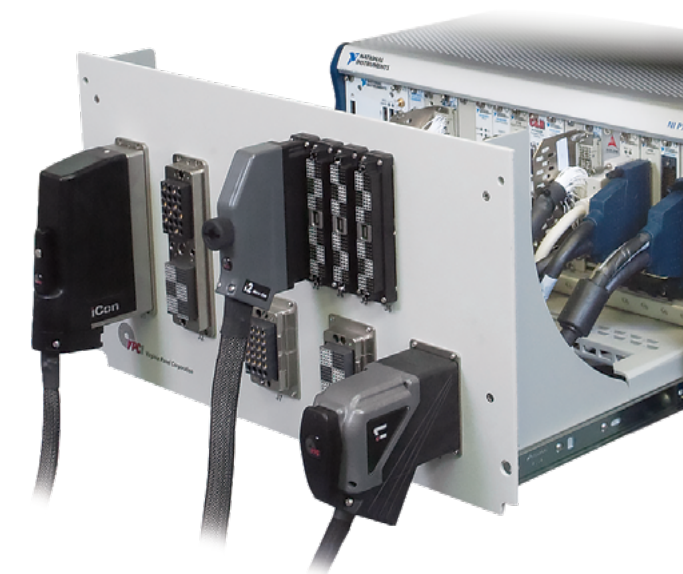
Compact and Stackable

- Sleek .8" footprint enables horizontal stackability in a multi-connector layout
- 30° angled cable exit minimizes vertical space between connectors



PCB Capable

- High-density signal headers enable direct connection to PCB adapter or PXI card
- Header contains solderless compliant pins for easy integration
- Twin female QuadraPaddle contacts can be directly connected to the PCB using right angle headers



i2 Micro iCon • 1 Module Solution

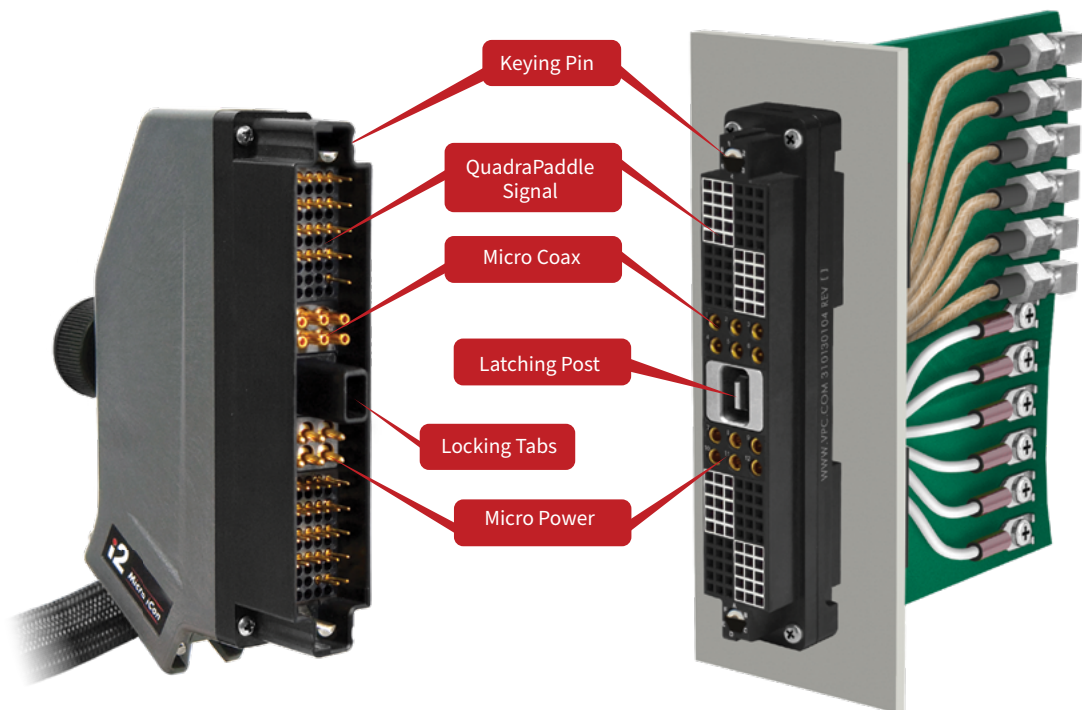
i2 Micro iCon meets the need for a slim-line, low I/O connector. Designed for the small connector market, i2 offers a sleek .8" footprint with capabilities for discrete-wiring, horizontal, and right-angle PCB mounting.

Features and Benefits

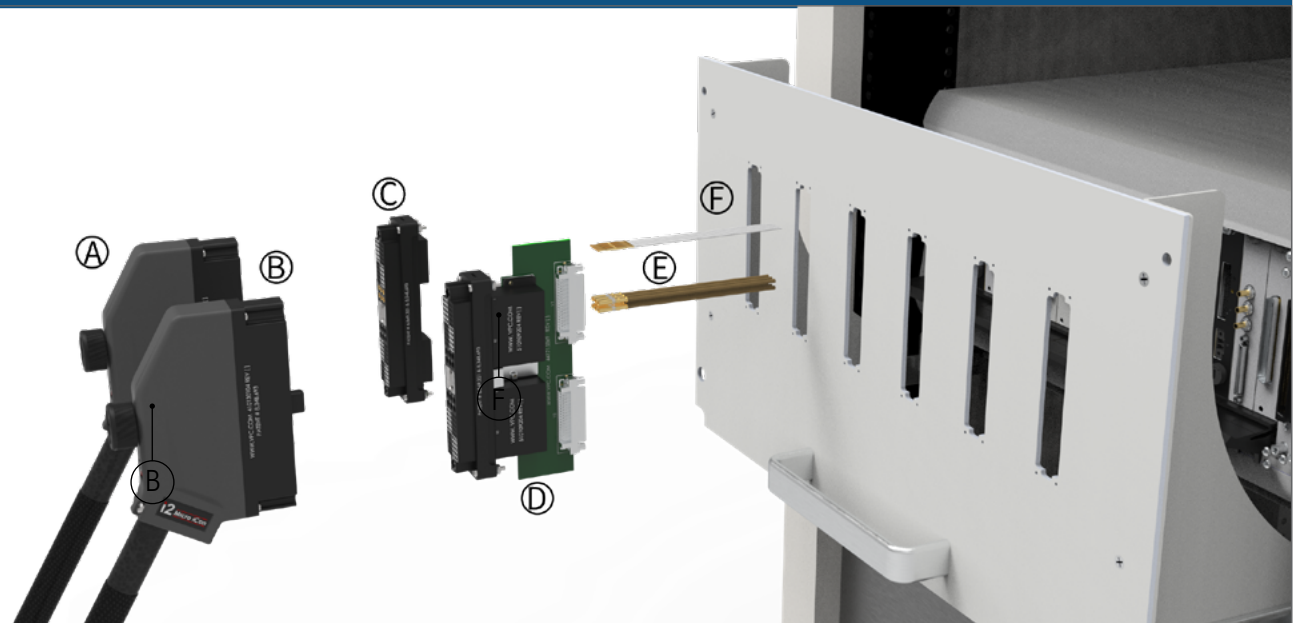
- 168 signal points available with QuadraPaddle technology
- Hybrid version offers 120 signal and 12 Micro Coaxial/Micro Power positions
- 30° cable exit for vertical stackability
- 0.8" footprint for horizontal stackability
- Integrated spring locking tabs ensure even and secure engagement
- Keying pins to prevent connector mismatch and damage to pins
- Direct connection to PCB with the 84 or 60 pin header
- Connection options include: i2 direct to PCB, i2 to flex print, i2 to PCB adapter card, and i2 discrete-wired
- Engineered for over 10,000 cycles



i2 Receiver and ITA



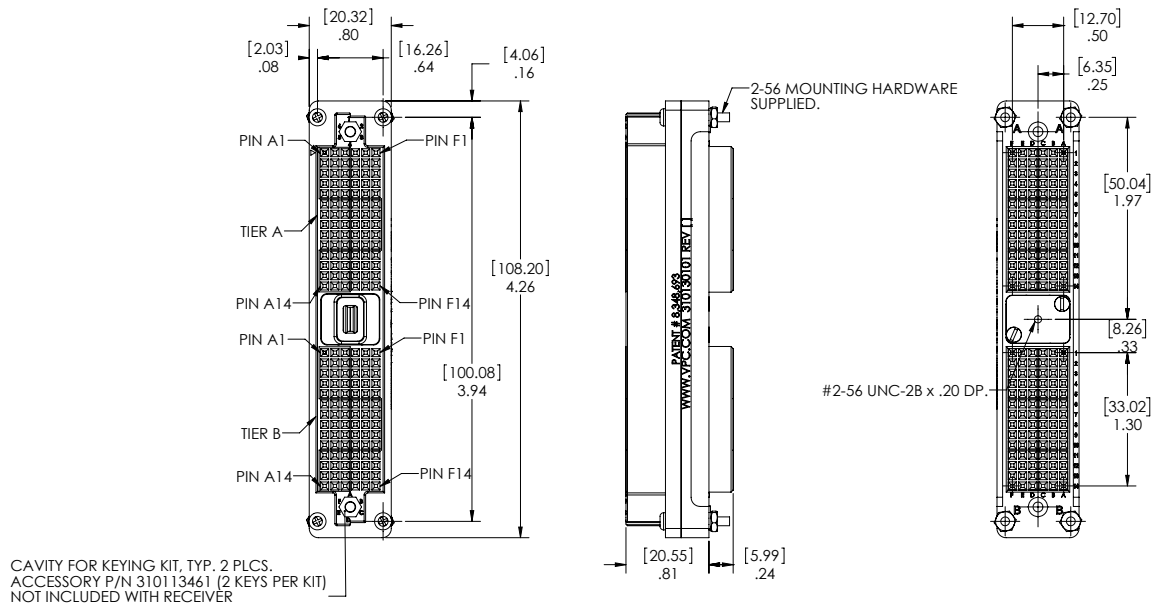
i2 Micro iCon Slide Mount Configuration



- A. ITA Backshell
- B. i2 Micro iCon ITA
- C. Receiver Module
- D. 84 Pin Header
- E. Receiver Patchcords
- F. Mounting Panel

Part #	Description
RECEIVERS	
310 130 101	Receiver, i2 Micro iCon, 168 Position, Fully Loaded with Twin Female Contacts (610 138 200)
310 130 102	Receiver, i2 Micro iCon, 168 Position, for Crimp Contacts
310 130 104	Receiver, i2 Micro iCon, 120/12 Position Hybrid, Fully Loaded with Twin Female Contacts (610 138 200)
310 130 105	Receiver, i2 Micro iCon, 120/12 Position Hybrid, for Crimp Contacts
310 130 107	Receiver, i2 Micro iCon, 168 Position, Unloaded, for Twin Female Contacts (610 138 200)
ITAS	
410 130 101	ITA, i2 Micro iCon, 168 Position
410 130 104	ITA, i2 Micro iCon, 120/12 Position Hybrid
410 130 106	ITA, i2 Micro iCon, 168 Position, with Oversized Backshell
CABLE ASSEMBLIES	
410 130 409	Cable Assembly, ITA, i2 Micro iCon, QuadraPaddle, 36", Flying Leads
410 130 425	Cable Assembly, ITA, i2 Micro iCon, QuadraPaddle, 72", Double Ended
410 130 426	Cable Assembly, ITA, i2 Micro iCon Hybrid, QuadraPaddle, Micro Power and Micro Coaxial, 72", Double Ended
MOUNTING OPTIONS	
310 113 586	Mounting Panel, i2 Micro iCon, 6U, 6 Positions, with Slide Mounting (slide kit required)
310 113 607	Cover Plate, i2 Micro iCon, for Mounting Panel Cutouts, Painted Gray
SLIDE KITS	
310 113 451	28" Slide Kit, Fits 26"–30" Deep Racks, Supports 180 lbs.
310 113 411	30" Slide Kit, Fits 28"–32" Deep Racks, Supports 180 lbs.
310 113 500	36" Slide Kit, Fits 34"–38" Deep Racks, Supports 180 lbs.
ACCESSORIES	
310 113 461	Keying Pin Kit, iSeries, Receiver and ITA
310 113 559	Strain Relief Plate, i2 Micro iCon, Receiver
310 113 562	Bracket, i2 Micro iCon, Receiver, for PCB Mounting
310 113 569	Protective Cover, i2 Micro iCon, Receiver
410 112 924	Protective Cover, i2 Micro iCon, ITA
510 109 204	Header, i2 Micro iCon, Receiver, 84 Pin, for PCB Mounting
510 109 206	Header, i2 Micro iCon, Receiver, 60 Pin, for PCB Mounting
510 150 207	i2 PCB Adapter, Receiver, QuadraPaddle, 168 Position, to 2 PCB Mounted 68 Pin Male SCSI Connectors
510 150 208	i2 PCB Adapter, Receiver, QuadraPaddle, 168 Position, to 2 PCB Mounted 68 Pin Female VHDCI Connectors

i2 Micro iCon Loaded Twin Female Contacts • Receiver



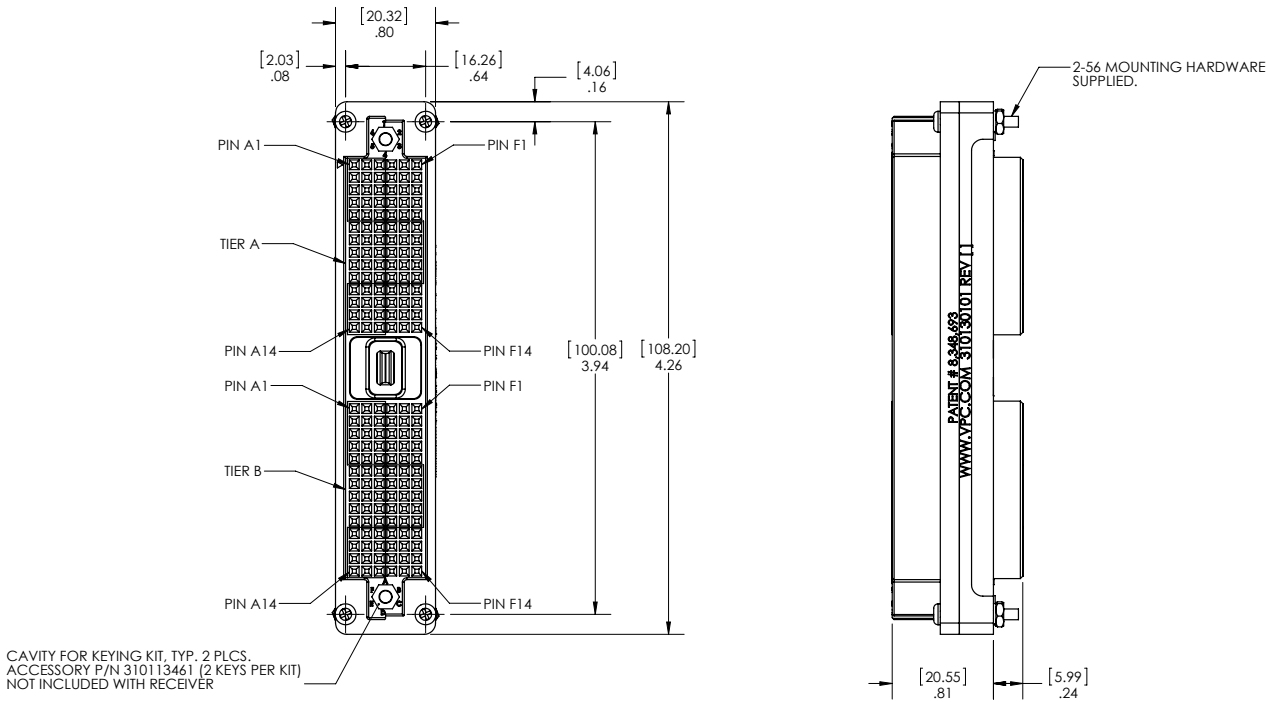
Receiver, i2 Micro iCon, 168 Position, Fully Loaded with Twin Female Contacts (610 138 200)
Part # 310 130 101

Receiver Specifications	
Weight	.18 lbs [.08 kg]
Frame Material	Glass reinforced thermoplastic
Hardware Material	Stainless steel alloy
Contact Positions	168 (loaded)
Cycle Life	10,000 cycles
Temperature	-55° C to 105° C
Vibration Random	11.6 g's RMS (Condition V PSD 0.1 MIL-STD-1344, Method 2005/EIA364-28)
Vibration Sine	15 g's (Condition III MIL-STD-1344, Method 2005/EIA364-28)
Temperature	-55° C to 105° C



The i2 Micro iCon receiver is capable of holding up to 168 QuadraPaddle contacts. QuadraPaddle modules are molded on .100" (2.54 mm) centers to meet the need for high-density I/O in a compact assembly. This i2 receiver is fully loaded with QuadraPaddle twin female signal contacts, Part # 610 138 200. An unloaded crimp version is also available, Part # 310 130 102.

i2 Micro iCon Unloaded Twin Female Contacts • Receiver



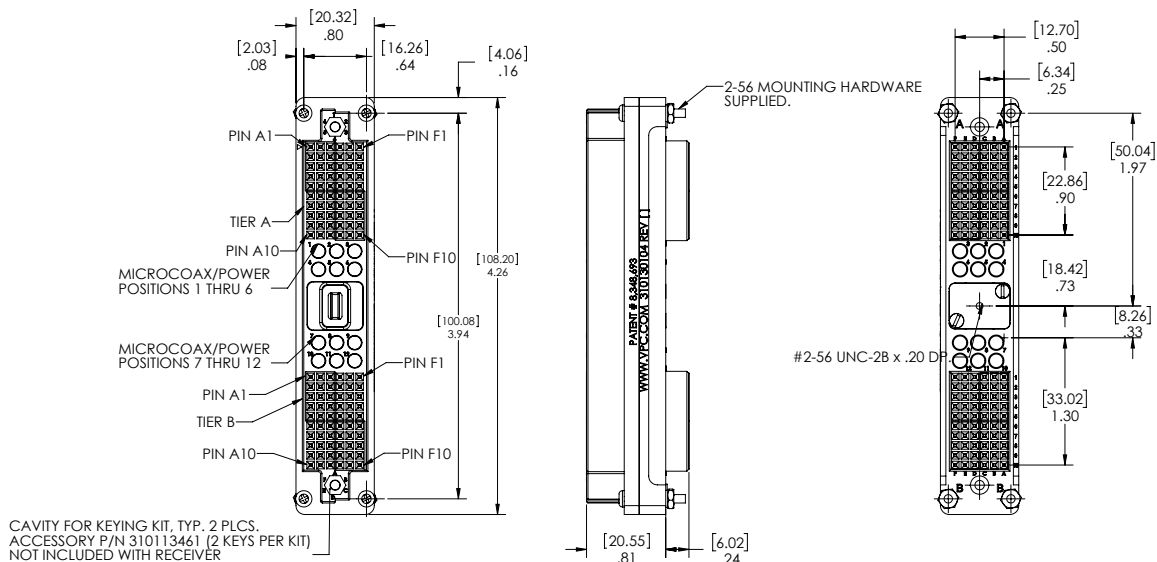
Receiver, i2 Micro iCon, 168 Position, Unloaded, for Twin Female Contacts (610 138 200)
Part # 310 130 107

Receiver Specifications	
Weight	.14 lbs [.06 kg]
Frame Material	Glass reinforced thermoplastic
Hardware Material	Stainless steel alloy
Contact Positions	168
Cycle Life	10,000 cycles
Shock	50 g's (Condition A MIL-STD-1344, Method 2004/EIA364-27)
Vibration Random	11.6 g's RMS (Condition V PSD 0.1 MIL-STD-1344, Method 2005/EIA364-28)
Vibration Sine	15 g's (Condition III MIL-STD-1344, Method 2005/EIA364-28)
Temperature	-55° C to 105° C



This i2 Micro iCon receiver comes ready to load with twin female contacts Part # 610 138 200.

i2 Micro iCon • Hybrid Receiver



Receiver, i2 Micro iCon, 120/12 Position Hybrid, Loaded with Twin Female Contacts (610 138 200)
Part # 310 130 104

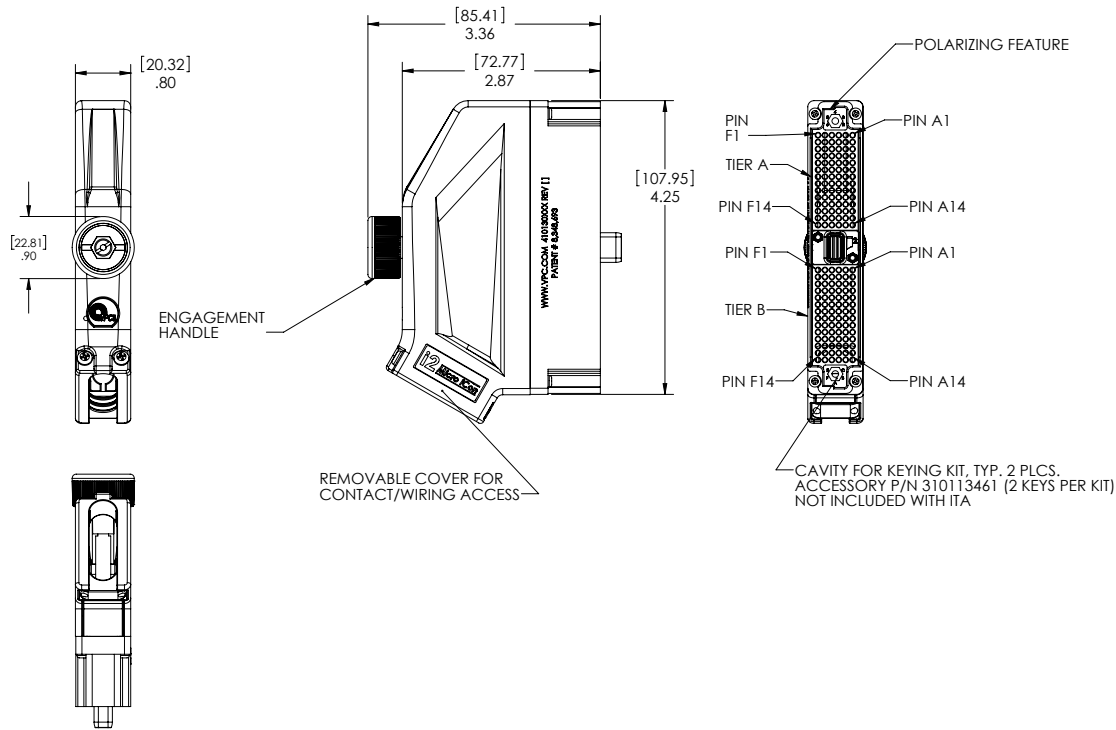
Receiver Specifications

Weight	.25 lbs [.11 kg]
Frame Material	Glass reinforced thermoplastic
Hardware Material	Stainless steel alloy
Contact Positions	120 signal, 12 Micro Coax/Power
Cycle Life	10,000 cycles
Temperature	-55° C to 105° C



The i2 Micro iCon hybrid receiver is capable of holding up to 120 QuadraPaddle and 12 Micro Coax or Micro Power contacts. This i2 receiver is loaded with QuadraPaddle twin female signal contacts, Part # 610 138 200. An unloaded crimp version is also available, Part # 310 130 105.

i2 Micro iCon • 168 Position ITA



ITA, i2 Micro iCon, 168 Position • Part # 410 130 101

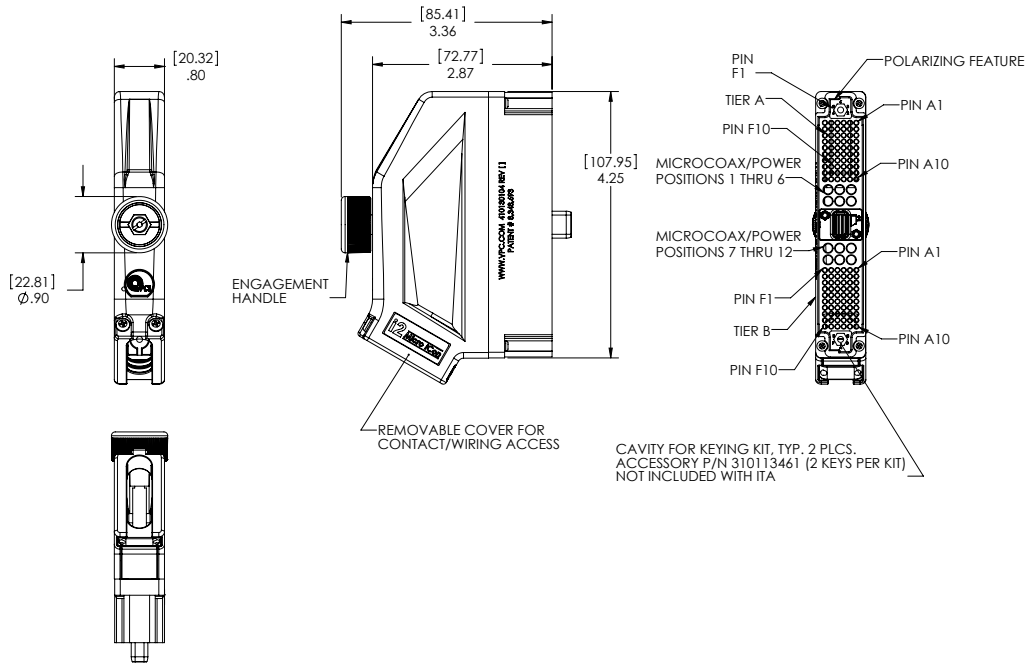
ITA Specifications

Weight	.25 lbs [.11 kg]
Frame Material and Housing	Glass reinforced thermoplastic
Hardware Material	Stainless steel
Latch Material	Nickel plated beryllium copper
Backshell Material	Glass reinforced thermoplastic
Cable Clamp Material	Powder coated aluminum
Contact Positions	168 signal
Cycle Life	10,000 cycles
Temperature	-55° C to 105° C



The i2 Micro iCon ITA is capable of holding up to 168 QuadraPaddle contacts. The 30 degree U-shaped cable clamp allows ITA modules to be pre-wired before assembly and can hold cable bundles with an oblong bushing effective diameter of .77". The removable backshell allows easy access to wiring for maintenance and probing.

i2 Micro iCon • Hybrid ITA



ITA, i2 Micro iCon, 120/12 Position Hybrid • Part # 410 130 104



ITA Specifications	
Weight	.25 lbs [.11 kg]
Frame Material and Housing	Glass reinforced thermoplastic
Hardware Material	Stainless steel
Latch Material	Nickel plated beryllium copper
Backshell Material	Glass reinforced thermoplastic
Cable Clamp Material	Powder coated aluminum
Contact Positions	120 signal, 12 Micro Coax/Power
Cycle Life	10,000 cycles
Temperature	-55° C to 105° C

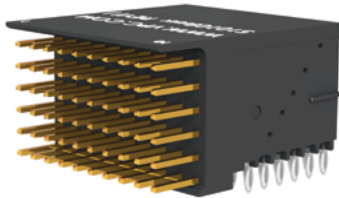
The i2 Micro iCon hybrid ITA is capable of holding up to 120 QuadraPaddle and 12 Micro Coaxial or Micro Power contacts. The 30 degree U-shaped cable clamp allows ITA modules to be pre-wired before assembly and can hold cable bundles with an oblong bushing effective diameter of 0.77". The removable backshell allows easy access to wiring for maintenance and probing.

i2 Micro iCon • Accessories



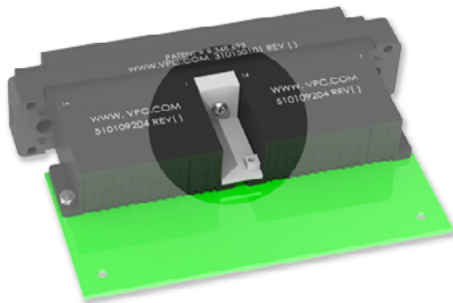
The 84 pin header for i2 Micro iCon contains solderless pins and enables a direct connection from the i2 standard receiver to a PCB such as a PXI card.

Header, Receiver, i2 Micro iCon, 84 Pin, for PCB Mounting • Part # 510 109 204



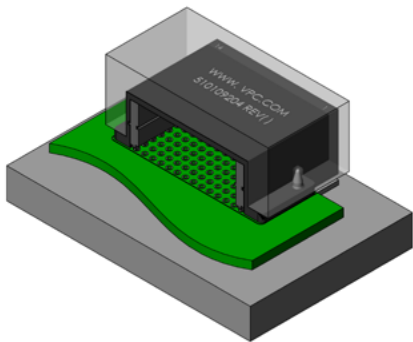
The 60 pin header for i2 Micro iCon contains solderless pins and enables a direct connection from the i2 Hybrid receiver to a PCB such as a PXI card.

Header, Receiver, i2 Micro iCon, 60 Pin, for PCB Mounting • Part # 510 109 206



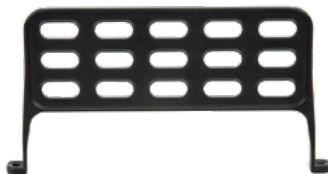
The i2 Micro iCon mounting bracket secures the PCB to the receiver module.

Bracket, Receiver, i2 Micro iCon, for PCB Mounting Part # 310 113 562



The press kit tool for i2 PCB headers aids in pressing the press fit pins into the header.

Tool, Press Kit, for i2 PCB Headers Part # 910 121 199



The i2 Micro iCon strain relief plate attaches to the wiring side of the receiver and can be secured before receiver installation.

Strain Relief Plate, i2 Micro iCon, Receiver Part # 310 113 559

More Configurability

i2 MX

Expanded Options

The i2 MX builds upon on the success of the popular i2 Micro iCon, offering a configurable connector in a slim .8" footprint. Now with multiple I/O options to choose from, i2 MX allows you to engineer the ideal connector to meet your test application needs.

Featuring an all metal backshell and an innovative cable exit, i2 MX provides maximum cable bundle capacity with available electromagnetic interference (EMI) protection. i2 MX meets the demand for higher levels of signal performance necessary in today's testing applications.

Innovative Design Features

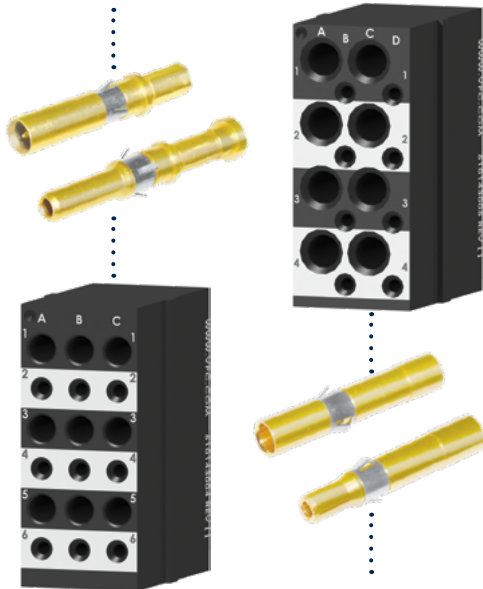
- Slimmer, metal engagement knob allows increased horizontal stackability
- EMI option provides effective shielding performance and ensures signal integrity
- Multiple contacts supported: QuadraPaddle, TriPaddle, SIM VTAC HSD, Power, and Coax
- Reversible all-metal backshell for multiple mounting options



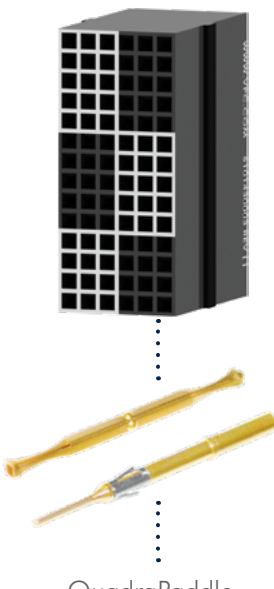
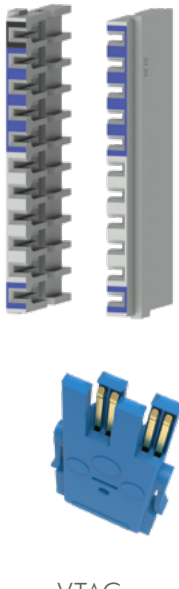
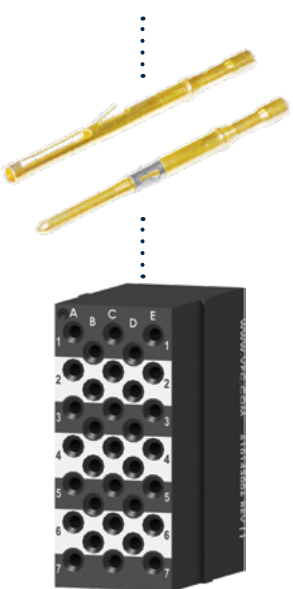
Configured for Any Test

The i2 MX offers more contact options than the standard i2, allowing the flexibility to choose multiple modular inserts to fit your needs.

Micro Power and Coax



TriPaddle



Mini Power and Coax

VTAC

QuadraPaddle

Modular

Various modular inserts available for increased contact selection

Scalable

Can be used within multiple VPC interfaces, including 90 Series

Configurable

Interchangeable modular inserts to fit requirement needs



i2 MX • 2 Module Solution

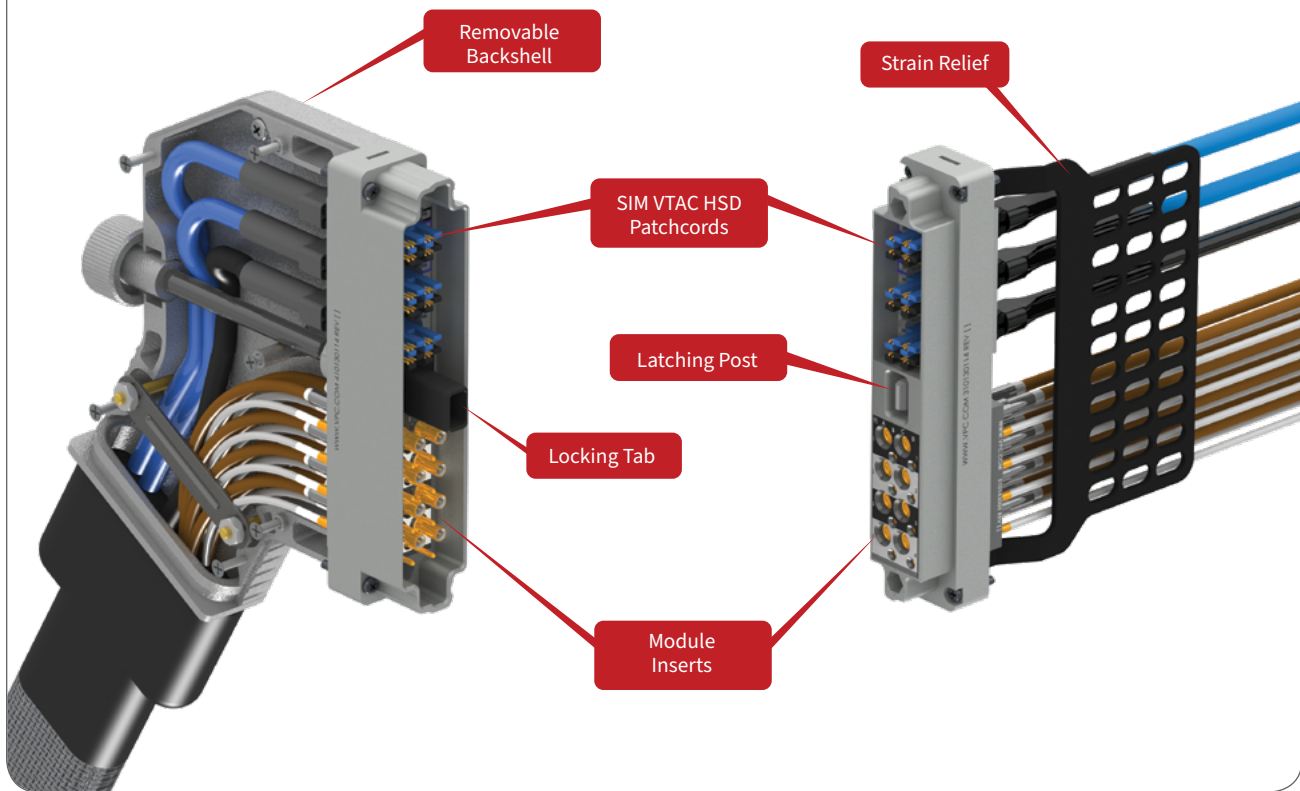
The i2 MX was engineered to retain the popular features of the i2 Micro iCon, while addressing the need of electromagnetic interference (EMI) shielding in the testing industry. The i2 MX also features the modularity and versatility of the iCon, offering a greater variety of I/O options.

Features and Benefits

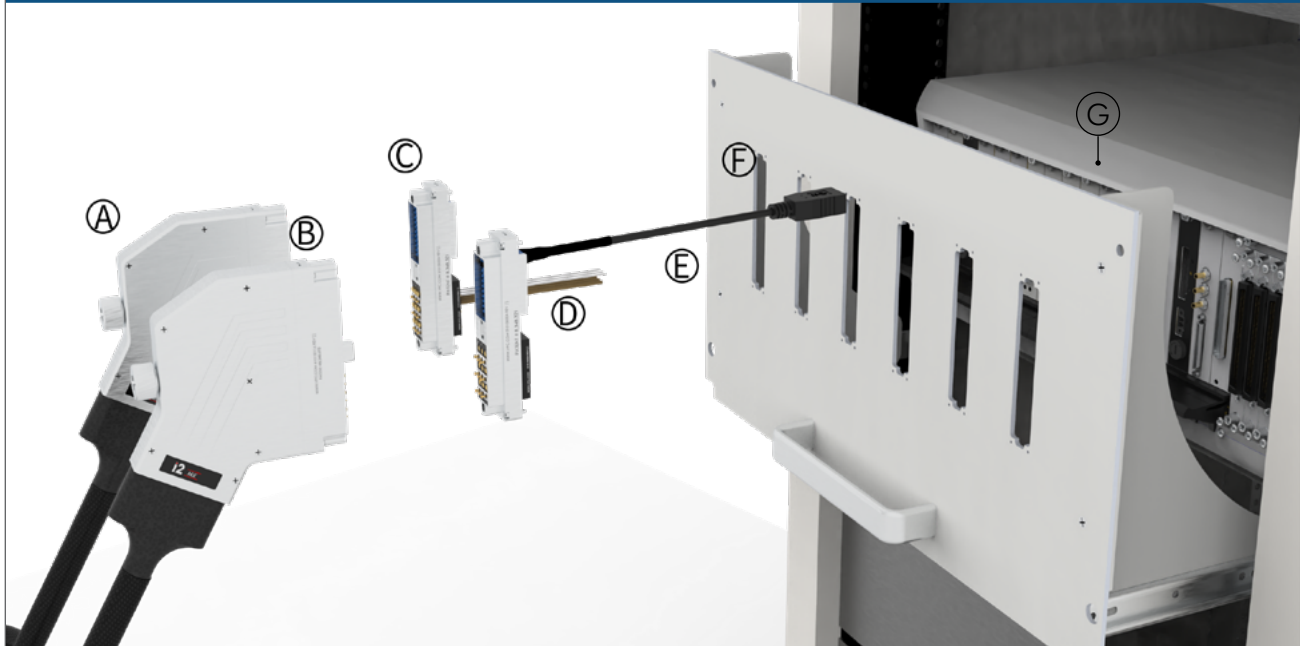
- EMI-shielding minimizes EMI leaks to and from other sources
- Oblong cable exit provides clearance for maximum cable bundle capacity and EMI-shielding
- Multiple I/O's supported: signal, coax, power, and high speed
- Easy access for trouble-shooting and maintenance with removable side panel on ITA backshell
- Specifically designed receiver strain relief for reliable patchcord alignment and security
- Engineered for over 10,000 cycles



i2 MX Receiver and ITA



i2 MX Panel Mount Configuration



- A. i2 MX ITA Backshell

B. ITA Module Frame

C. i2 MX Receiver

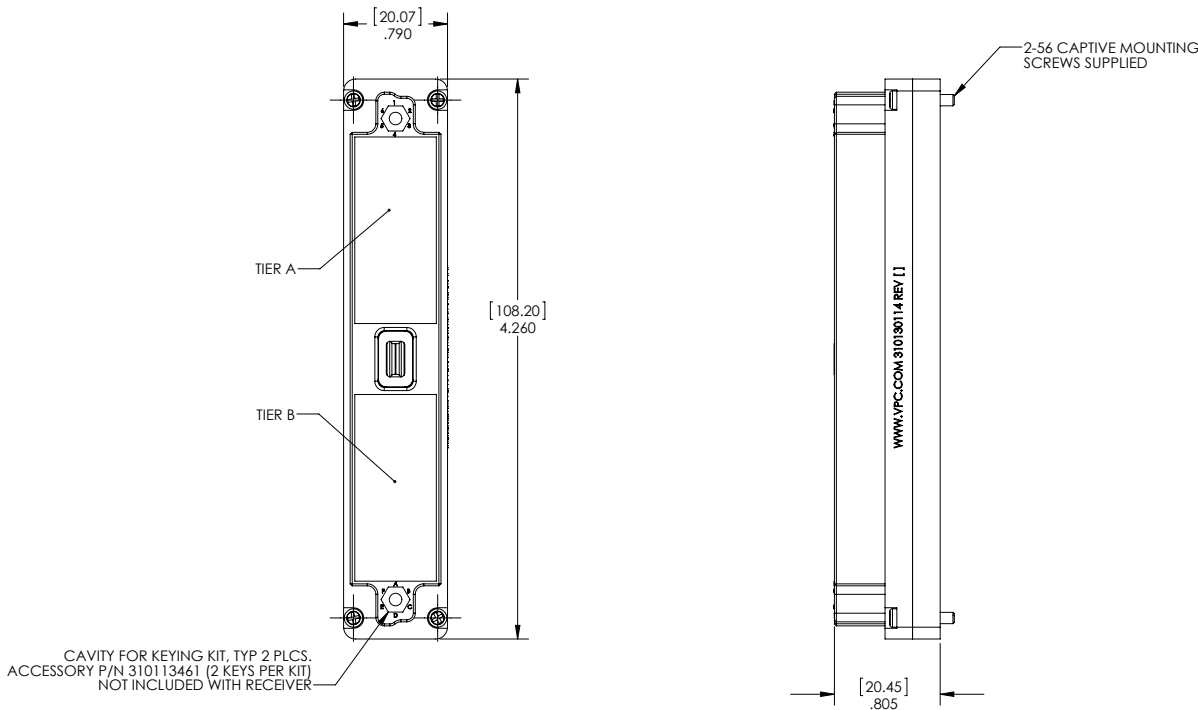
D. Receiver Patchcord
- E. VTAC Patchcord

F. Mounting Panel

G. ITA Backshell

Part #	Description
RECEIVERS	
310 130 113	Receiver, i2 MX, 2 SIM Module Inserts, 22 Position, EMI-Shielded
310 130 114	Receiver, i2 MX, EMI-Shielded
310 130 202	Receiver, i2 MX, 2 QuadraPaddle Module Inserts, Fully Loaded with Twin Female Contacts (610 138 200), EMI-Shielded
310 130 204	Receiver, i2 MX, 2 TriPaddle Signal/Micro Power and Micro Coaxial Module Inserts, EMI-Shielded
310 130 205	Receiver, i2 MX, QuadraPaddle Module Insert, Crimp/Micro Power and Micro Coaxial Module Insert, EMI-Shielded
ITAS	
410 130 114	ITA, i2 MX, EMI Backshell, with Cable Exit
410 130 116	ITA, i2 MX, 2 SIM Module Inserts, 22 Position, EMI Backshell
410 130 117	ITA, i2 MX, EMI Backshell, without Cable Exit
410 130 202	ITA, i2 MX, 2 QuadraPaddle Module Inserts, Crimp, EMI Backshell
410 130 204	ITA, i2 MX, 2 TriPaddle Signal/Micro Power and Micro Coaxial Module Inserts, EMI Backshell
410 130 205	ITA, i2 MX, QuadraPaddle Module Insert, Crimp/Micro Power and Micro Coaxial Module Insert, EMI Backshell
SIM INSERTS	
610 151 101	High Speed Insert, Receiver/ITA, SIM, 12.5 Gbps, 50µ", VTAC HSD (Only Available in Patchcords)
510 180 101	Signal Insert, Receiver, SIM QuadraPaddle, 4 Position
510 181 101	Signal Insert, ITA, SIM QuadraPaddle, 4 Position
MODULE INSERTS, RECEIVER	
510 143 001	SIM Module Insert, Receiver, i2 MX, 11 Position
510 143 002	QuadraPaddle Signal, Module Insert, Receiver, i2 MX, 84 Position, Crimp
510 143 003	QuadraPaddle Signal, Module Insert, Receiver, i2 MX, 84 Position, Fully Loaded w/ Twin Female Contacts (610 138 200)
510 143 004	TriPaddle Signal/Micro Power and Micro Coaxial, Module Insert, Receiver, i2 MX, 9/9 Position
510 143 005	TriPaddle Signal/Mini Power and Mini Coaxial, Module Insert, Receiver, i2 MX, 8/8 Position
510 143 006	TriPaddle Signal, Module Insert, Receiver, i2 MX, 33 Position
MODULE INSERTS, ITA	
510 144 001	SIM Module Insert, ITA, i2 MX, 11 Position
510 144 002	QuadraPaddle Signal, Module Insert, ITA, i2 MX, 84 Position, Crimp
510 144 004	TriPaddle Signal/Micro Power and Micro Coaxial, Module Insert, ITA, i2 MX, 9/9 Position
510 144 005	TriPaddle Signal/Mini Power and Mini Coaxial, Module Insert, ITA, i2 MX, 8/8 Position
510 144 006	TriPaddle Signal, Module Insert, ITA, i2 MX, 33 Position
ACCESSORIES	
310 113 461	Keying Pin Kit, iSeries, Receiver and ITA
310 113 667	Protective Cover, i2 MX, Receiver, EMI-Shielded
310 113 681	Strain Relief Plate, i2 MX, Receiver
410 112 924	Protective Cover, i2 Micro iCon, ITA
510 109 204	Header, i2 Micro iCon, Receiver, 84 Pin, for PCB Mounting

i2 MX • Receiver



Receiver, i2 MX, EMI-Shielded **Part # 310 130 114**

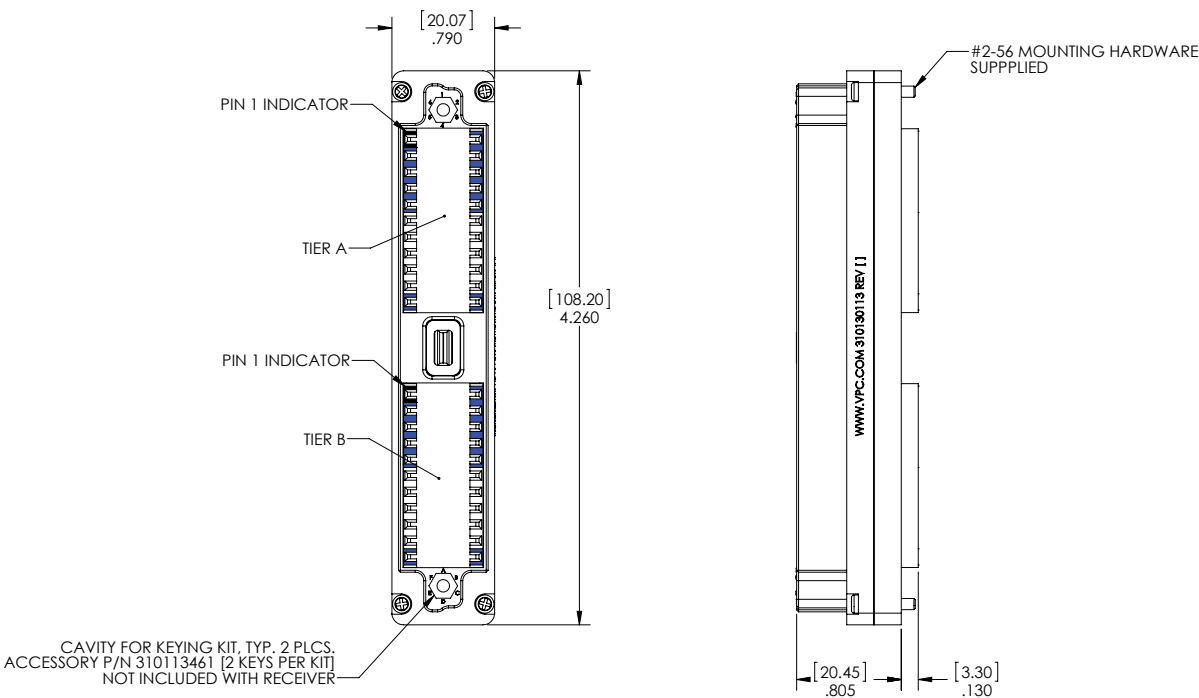
Receiver Specifications

Weight	.17 lbs [.08 kg]
Frame Material	Nickel plated zinc
Hardware Material	Stainless steel
Available Module Insert Positions	2 positions
Cycle Life	10,000 cycles
Temperature	-40° C to 125° C



The i2 MX receiver accepts two module inserts, which allows a variety of signal, power, coax, thermocouple, and fiber optic connections. Pre-configured receivers are also available. For more information, please refer to the previous exploded-view diagram on page 41.

i2 MX • Receiver with SIM Module Inserts



Receiver, i2 MX, 2 SIM Module Inserts, 22 Position, EMI-Shielded **Part # 310 130 113**

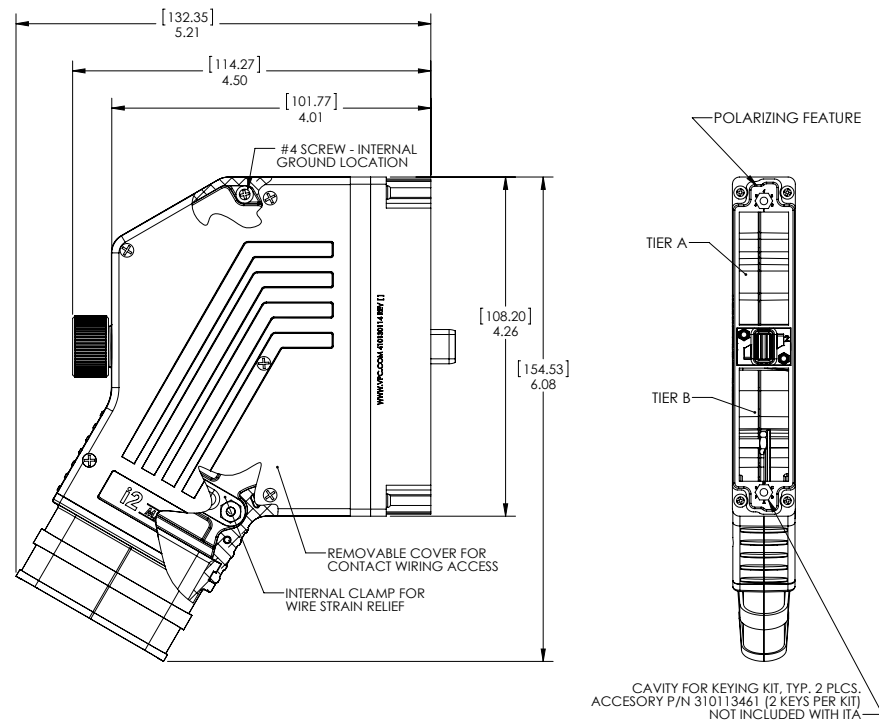
Receiver Specifications

Weight	.23 lbs [.10 kg]
Frame Material	Nickel plated zinc
Hardware Material	Stainless steel
Available SIM Insert Positions	22 positions
Available Module Insert Positions	2 positions
Cycle Life	10,000 cycles
Temperature	-40° C to 125° C



This i2 MX receiver includes two SIM module inserts which allows it to be configured with 22 SIM QuadraPaddle inserts or 22 SIM VTAC HSD inserts.

i2 MX • ITA



ITA, i2 MX, EMI Backshell, with Cable Exit • **Part # 410 130 114**

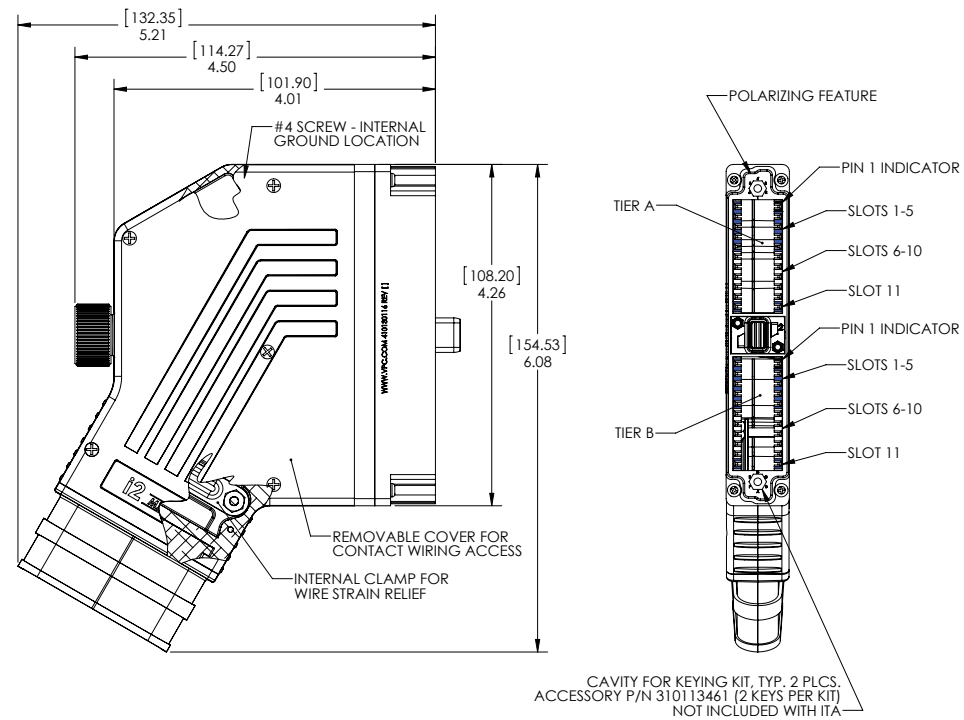
ITA Specifications

Weight	.63 lbs [.28 kg] without protective cover
Frame Material	Nickel plated zinc
Hardware Material	Stainless steel
Latches	Nickel plated beryllium copper
Backshell	Nickel plated aluminum
Available Module Insert Positions	2 positions
Cycle Life	10,000 cycles
Operating Temperature	−40° C to 125° C



The i2 MX ITA accepts two module inserts, which allows a variety of signal, power, coax, thermocouple, and fiber optic connections. The cable exit is one inch in diameter. Pre-configured receivers are also available.

i2 MX • ITA with SIM Module Inserts



ITA, i2 MX, 2 SIM Module Inserts, 22 Position, EMI Backshell • **Part # 410 130 116**

ITA Specifications

Weight	.69 lbs [.31 kg] without protective cover
Frame Material	Nickel plated zinc
Hardware Material	Stainless steel
Latches	Nickel plated beryllium copper
Backshell	Nickel plated aluminum
Available SIM Insert Positions	22 positions
Available Module Insert Positions	2 positions
Cycle Life	10,000 cycles
Operating Temperature	−40° C to 125° C



This i2 MX ITA includes two SIM module inserts which allows the connector to be configured with 22 SIM QuadraPaddle inserts or 22 SIM VTAC HSD inserts.

11 Position SIM Module Inserts

Specifications

Material	Nickel plated zinc
Operating Temperature	-40°C to 125°C
Available Insert Positions	11
Module Positions Needed	1

PIN 1 INDICATOR

LOCATIONS 1-5

LOCATIONS 6-10

LOCATION 11

MATING FACE

WIRING FACE

PIN 1 INDICATOR

LOCATIONS 1-5

LOCATIONS 6-10

LOCATION 11

MATING FACE

WIRING FACE

Receiver Part # 510 143 001		ITA Part # 510 144 001
Part #	Description	Contacts Used
I2 MX RECEIVER SIM MODULE INSERT		
510 143 001	SIM Module Insert, Receiver, i2 MX, 11 Position	610 151 101 610 151 103 510 180 101
I2 MX ITA SIM MODULE INSERT		
510 144 001	SIM Module Insert, ITA, i2 MX, 11 Position	610 151 101 610 151 103 510 181 101

i2 MX • Accessories

The EMI-shielded receiver protective cover for the i2 MX is available with a beaded chain lanyard.

[20.07]
.79

[20.32]
.800

[11.68]
.460

[108.20]
4.26

The strain relief plate is made of aluminum and is black powder coated. It includes four wire ties and stainless steel hardware.

Strain Relief Plate, i2 MX Receiver **Part # 310 113 681**

Infinite Connections

Rugged Connector

- Engagement mechanism engineered for over 10,000 cycles
- Durable and will withstand drop and vibration test conditions
- Functional in thermal testing environments from -55°C to 105°C



Unique Engagement

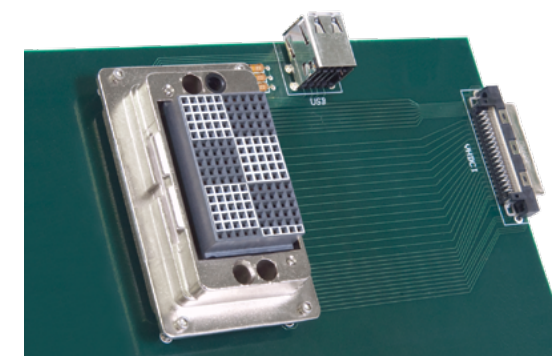
- Half-turn quick cam mechanism
- Spring-locking tabs with polarizing feature ensure even engagement
- Keying and guide pins maintain proper alignment when engaging



Quick Connect half-turn engagement handle

Exceptional Design Features

- Polarizing feature with optional keying for proper alignment
- 30° U-shaped cable clamp for strain relief
- Optional EMI-shielding to protect signal integrity with metallized plastic shielding in the backshell
- Removable backshell and engaging mechanism enable easy wire access



Variety of Options

- Accepts all iCon modules; hybrid modules allow multiple I/O options, including: signal, power, coax, fiber optic, pneumatic, and high power
- PCB-mountable with QuadraPaddle technology
- Standard double-ended and flying lead cable configurations available

i1 • 1 Module Solution

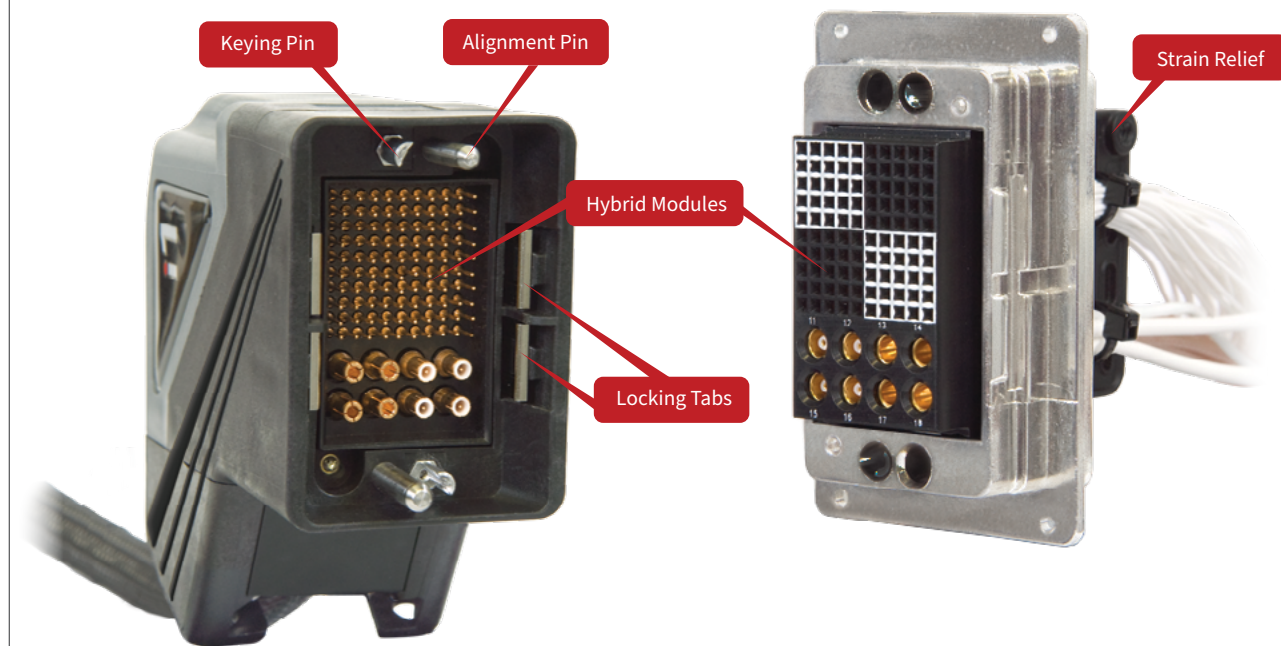
The i1 is ideal for small connector needs. Following the success of VPC's popular rack and panel connector, iCon, the i1 was developed to satisfy the need for an even smaller connector. Each i1 connector holds a single iCon module, making it the perfect solution for low I/O, hybrid applications.

Features and Benefits

- Accepts all iCon modules, enabling mixing of I/O with hybrid modules
- PCB-mountable
- Spring-locking tabs ensure even engagement
- Keying and guide pins ensure proper alignment and prevent incorrect mating
- Recessed ITA contacts protect your investment
- Removable backshell and engaging mechanism allow easy access to wire
- Engineered for over 10,000 cycles



i1 ITA and Receiver



i1 Slide Mount Configuration



A. ITA Patchcords

B. ITA Backshell and Engaging Mechanism

C. ITA Module

D. i1 ITA Frame

E. U-shaped Cable Clamp

F. i1 Receiver Frame

G. Receiver Module

H. Strain Relief

I. Receiver Patchcords

J. Mounting Panel

Part

Description

RECEIVER

310 128 101 Receiver, i1, with Protective Cover

ITAS

410 128 101 ITA, i1, with Protective Cover

410 128 102 ITA, i1, EMI-Shielded, with Threaded Coupling Adapter and Protective Cover

410 128 103 ITA, i1, with Large Cable Clamp and Protective Cover

Cable Assemblies

410 128 461 Cable Assembly, ITA, i1, QuadraPaddle, 36", Flying Leads

410 128 539 Cable Assembly, ITA, i1, QuadraPaddle, 72", Double Ended

MOUNTING OPTIONS

310 113 517 Fixed Mounting Panel, i1, 2U, 8 Positions

310 113 546 Cover Plate, i1, for Mounting Panel Cutouts, Painted Gray

310 113 547 Mounting Panel, i1, 6U, 4 Positions, with Slide Mounting (slide kit required)

SLIDE KITS

310 113 451 28" Slide Kit, Fits 26"-30" Deep Racks, Supports 180 lbs.

310 113 411 30" Slide Kit, Fits 28"-32" Deep Racks, Supports 180 lbs.

310 113 500 36" Slide Kit, Fits 34"-38" Deep Racks, Supports 180 lbs.

ACCESSORIES

310 113 461 Keying Pin Kit, iSeries, Receiver and ITA

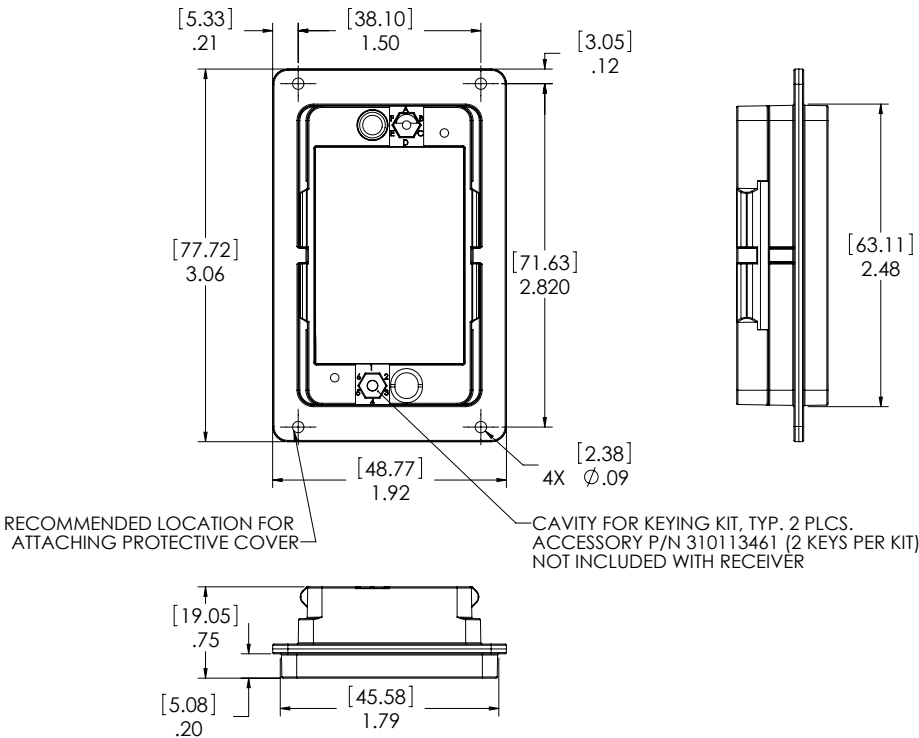
310 113 531 Strain Relief Plate, i1, Receiver

310 113 582 Strain Relief Stand-off Kit, iCon, Receiver

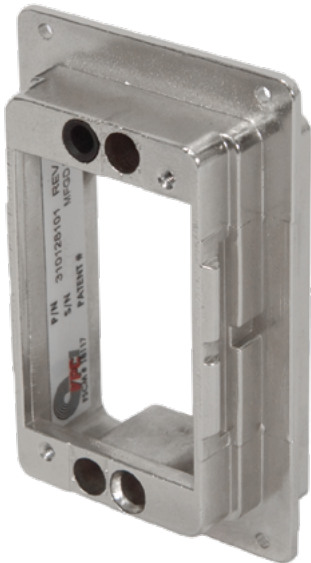
310 113 524 Replacement Protective Cover, i1, Receiver

410 112 864 Replacement Protective Cover, i1, ITA

i1 Receiver



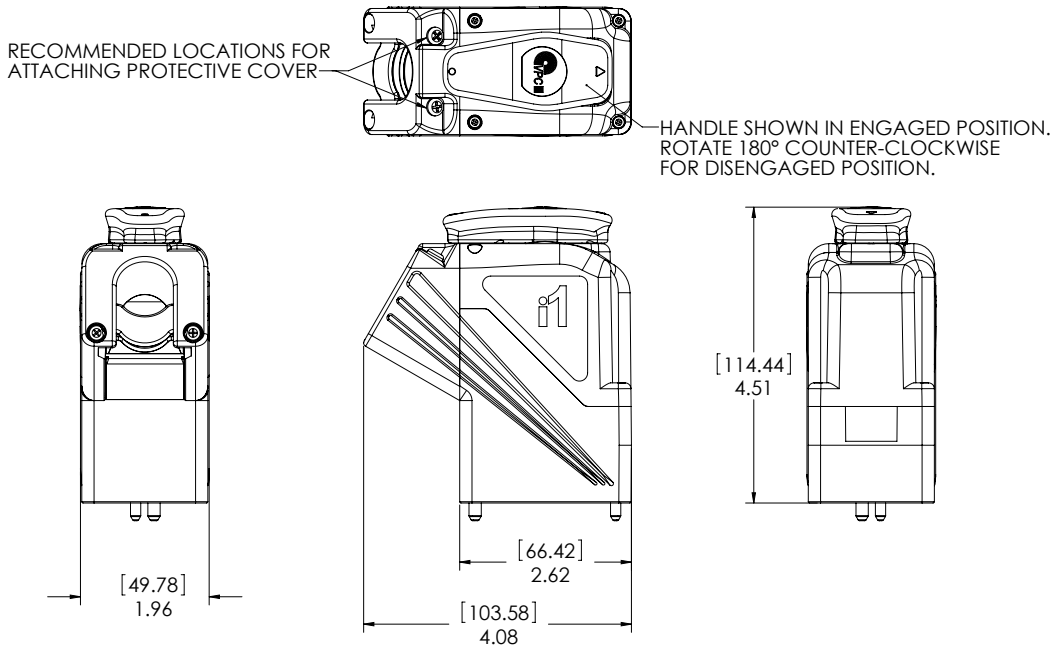
Receiver, i1, with Protective Cover • Part # 310 128 101



Receiver Specifications	
Weight	.10 lbs [.05 kg] without protective cover
Frame Material	Nickel plated aluminum alloy
Hardware Material	Stainless steel alloy
Protective Cover Material	ABS, black
Available Module Positions	1 position
Cycle Life	10,000 cycles
Temperature	-55° C to 105° C

The i1 receiver accepts a single iCon module and allows a variety of signal, power, coaxial, thermocouple, and fiber optic connections. A protective cover is included with the receiver. Other accessories are available, such as keying pin kits and strain relief.

i1 ITA



ITA, i1, with Protective Cover • Part # 410 128 101



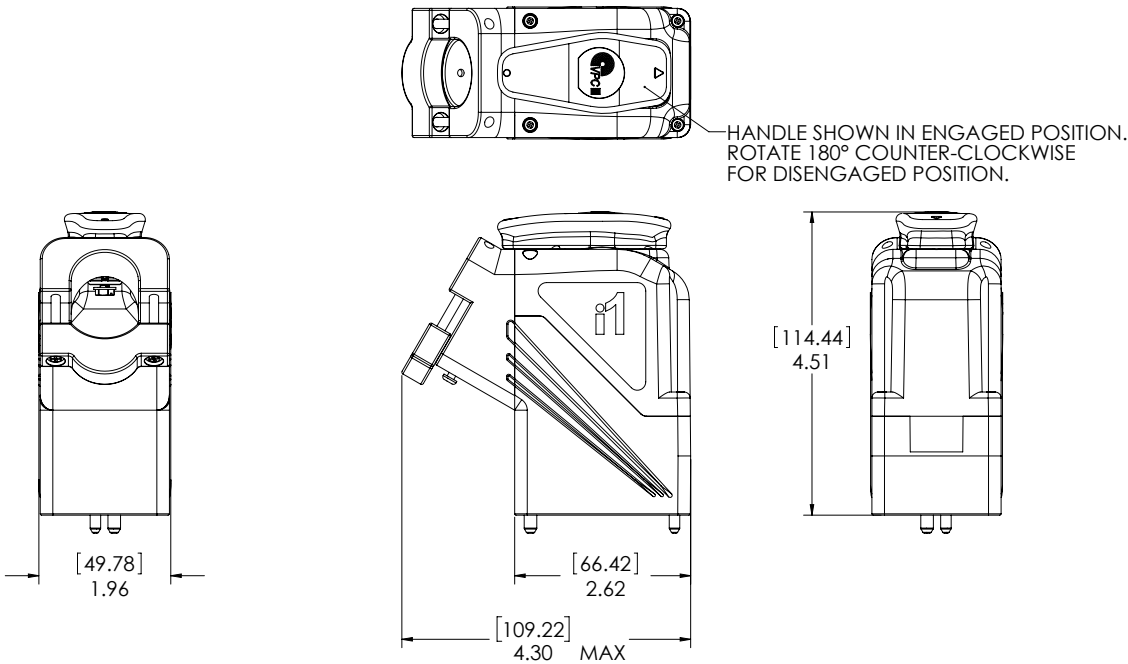
ITA Specifications	
Weight	.55 lbs [.25 kg] without protective cover
Frame Material and Clamp Housing	Glass reinforced thermoplastic
Hardware Material	Stainless steel
Latch Material	Nickel plated beryllium copper
Backshell Material	Glass reinforced thermoplastic
Protective Cover Material	ABS, black
Available Module Positions	1 position
Cycle Life	10,000 cycles
Temperature	-55° C to 105° C



The U-shaped cable clamp is adjustable to accommodate the amount of wires in your cable bundle.

The i1 ITA's small width and inboard handle increase side-to-side stackability. The U-shaped cable clamp allows modules to be pre-wired before assembly and can hold cable bundles up to 1.07" diameter. The removable backshell allows easy access to wiring for maintenance and probing. A protective cover is included with the ITA.

i1 ITA with Large Cable Clamp



ITA, i1, with Large Cable Clamp and Protective Cover • Part # 410 128 103



ITA Specifications

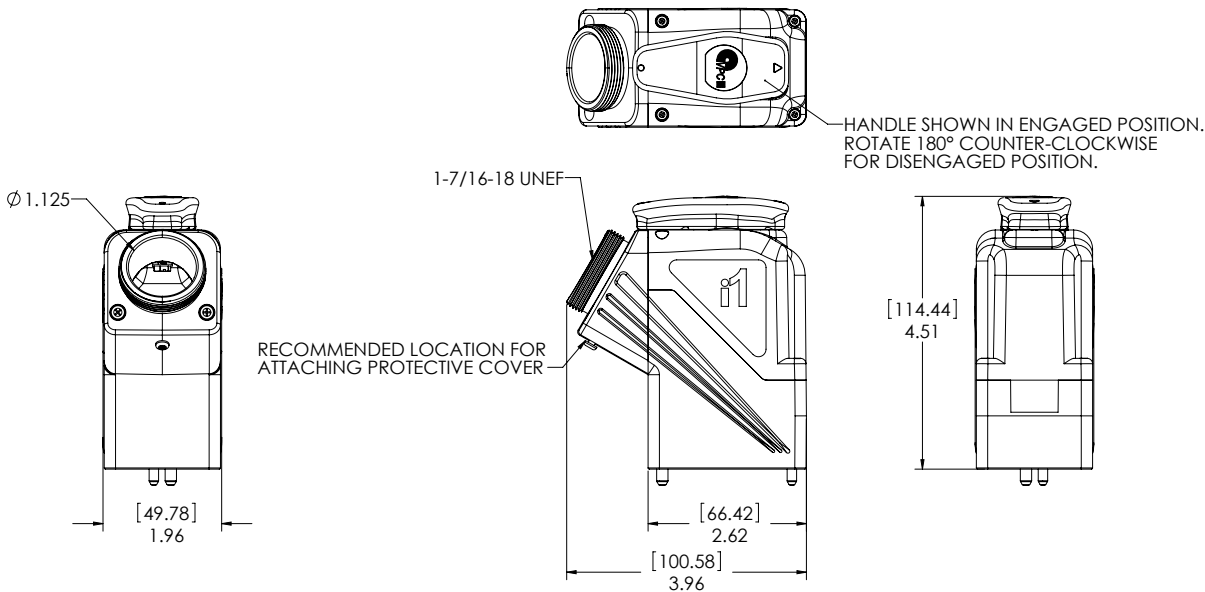
Weight	.55 lbs [.25 kg] without protective cover
Frame Material and Clamp Housing	Glass reinforced thermoplastic
Hardware Material	Stainless steel
Latch Material	Nickel plated beryllium copper
Backshell Material	Glass reinforced thermoplastic
Protective Cover Material	ABS, black
Available Module Positions	1 position
Cycle Life	10,000 cycles
Temperature	-55° C to 105° C



The U-shaped cable clamp is adjustable to accommodate the amount of wires in your cable bundle.

This i1 ITA option provides a larger cable clamp that allows modules to be pre-wired before assembly and can hold cable bundles up to 1.26" diameter. The removable backshell allows easy access to wiring for maintenance and probing. A protective cover is included with the ITA.

i1EMI ITA



ITA, i1, EMI Shielded, with Protective Cover • Part # 410 128 102

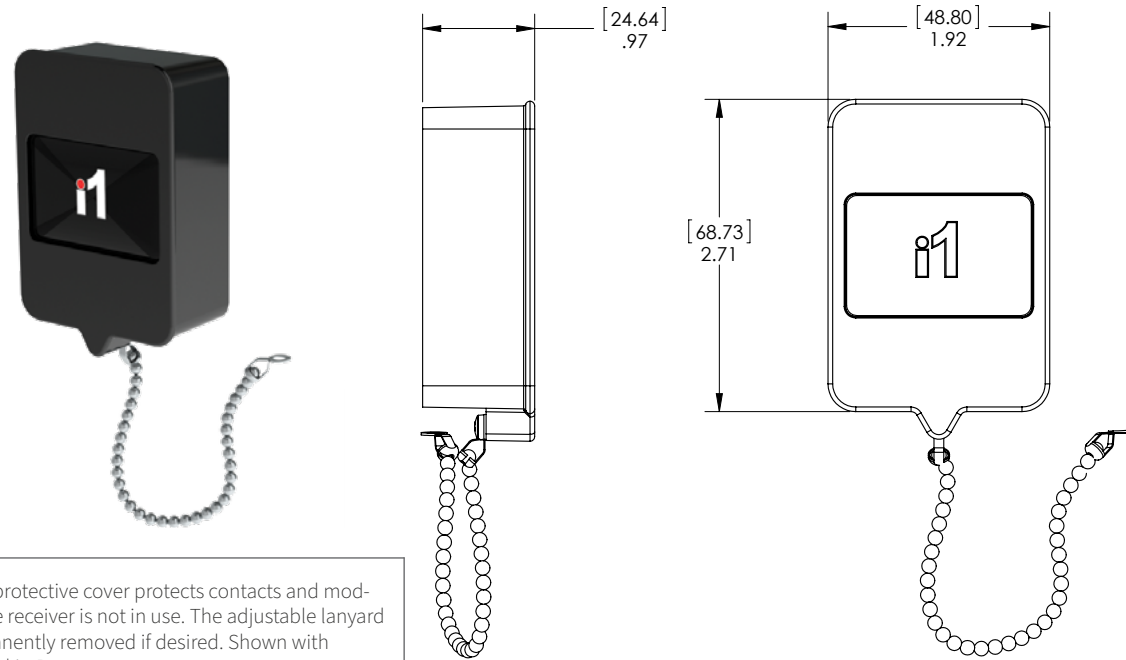


ITA Specifications

Weight	.55 lbs [.25 kg] without protective cover
Frame Material and Clamp Housing	Stainless steel filled thermoplastic
Hardware Material	Stainless steel
Latch Material	Nickel plated beryllium copper
Backshell Material	Stainless steel filled thermoplastic
Protective Cover Material	ABS, black
Available Module Positions	1 position
Cycle Life	10,000 cycles
Temperature	-55° C to 105° C

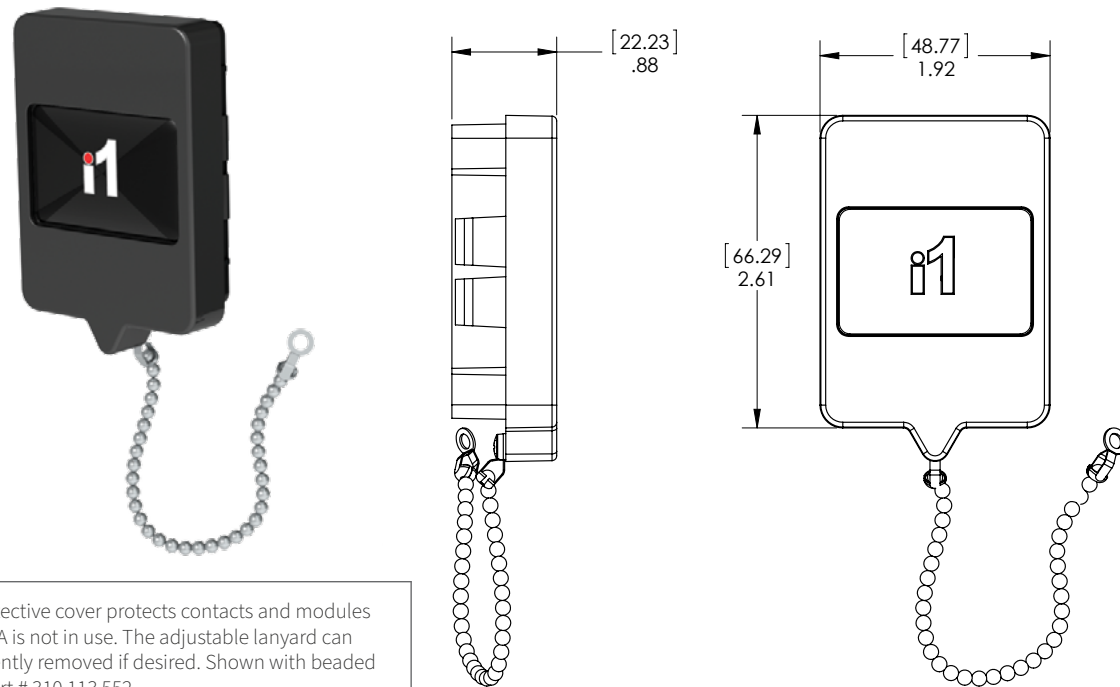
The i1EMI ITA has many of the standard features of the i1, in addition to EMI protection. The EMI-shielding effect on the i1EMI ITA is provided by the stainless steel fibers in the plastic shell and threaded metal coupling adapter. A protective cover is included with the ITA.

i1 Accessories



The receiver protective cover protects contacts and modules when the receiver is not in use. The adjustable lanyard can be permanently removed if desired. Shown with beaded chain kit, Part # 310 113 552.

Replacement Protective Cover, i1, Receiver • Part # 310 113 524



The ITA protective cover protects contacts and modules when the ITA is not in use. The adjustable lanyard can be permanently removed if desired. Shown with beaded chain kit, Part # 310 113 552.

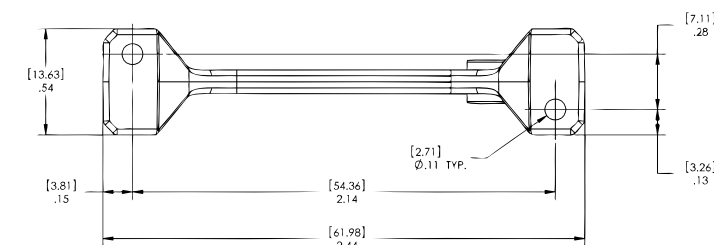
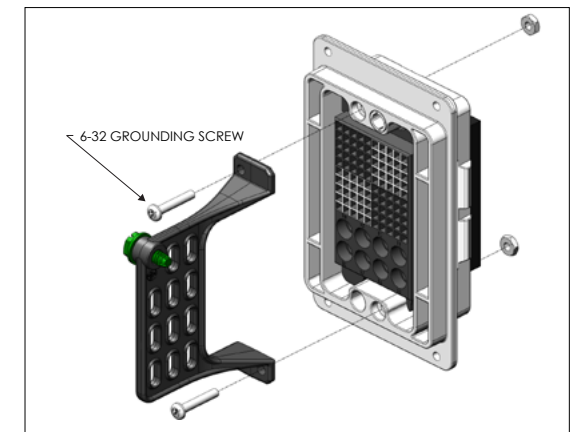
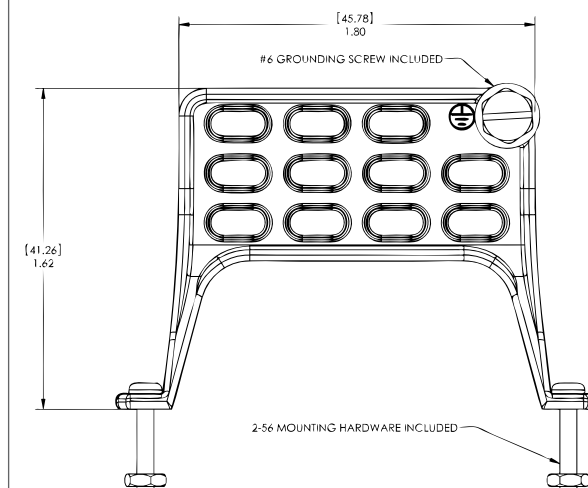
Replacement Protective Cover, i1, ITA • Part # 410 112 864

i1 Accessories

The iSeries keying pin kit includes a set of two hex keys. One hex key will allow six different options and two can provide 36 different keying options. The keying kit provides a way to isolate your connectors to prevent operational mismatch.



Keying Pin Kit, iSeries, Receiver and ITA • Part # 310 113 461

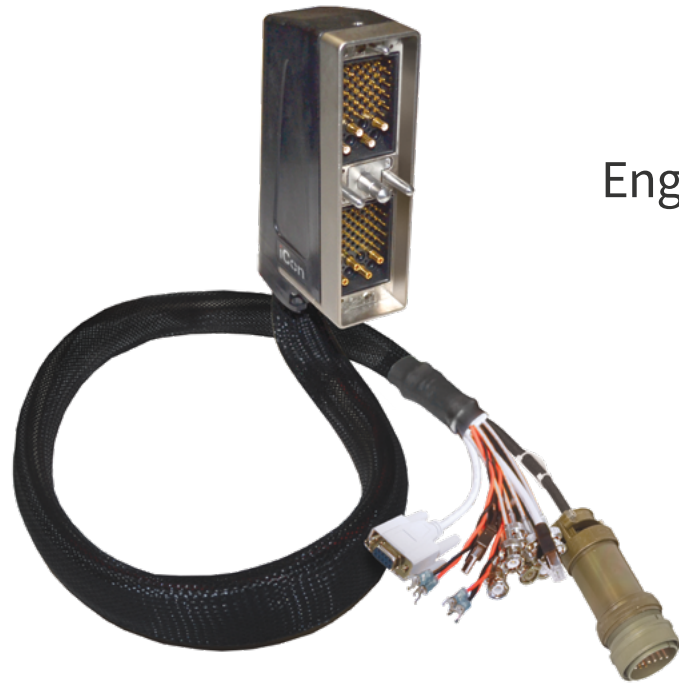


The strain relief plate attaches to the wiring side of the i1 receiver and can be secured before receiver installation. It includes four wire ties and an earth grounding screw.

Strain Relief Plate, i1, Receiver • Part # 310 113 531

Discover Versatility & High Performance

iCon & iConEMI

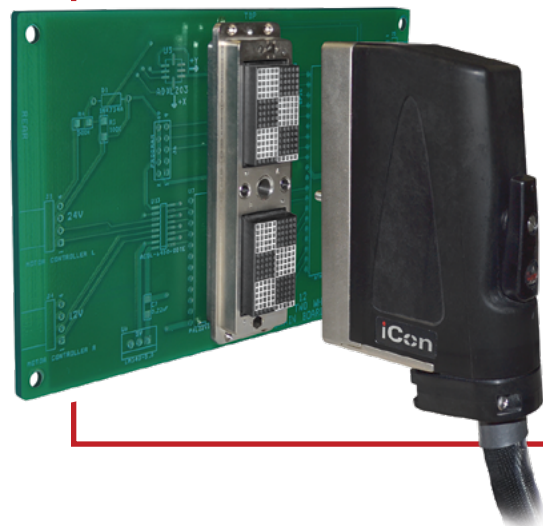


Engineered for Test & Measurement

- Rugged engagement mechanism designed for over 10,000 cycles
- Mate up to 320 signal contacts using QuadraPaddle technology
- Small width and inboard handle increase side-to-side stackability

Convenient Rack & Panel

- Slide-off backshell allows access to probe points while engaged
- Removable U-shaped cable clamp makes it easy to reconfigure wired modules
- Fail-safe features include offset guide pins, recessed ITA contacts, and keying pins



Innovative & Practical Module Features

- PCB-mountable receiver
- Standard modules allow a mix of I/O
- Captive hardware in modules guarantees screws will not be lost
- Rear-mount modules allow for easy installation of pre-wired cable assemblies
- Modules available in coax, power, signal, thermocouple, pneumatic, and fiber optic, including hybrid combinations

EMI Protection Maximizes Shielding Effectiveness

- “Mate first, break last” feature completes the earth ground circuit
- Earth-ground terminal prevents shock and injury
- EMI-shielding with metallized plastic shielding in the backshell minimizes EMI leaks to and from other sources



iCon • 2 Module Solution

iCon is a fail-safe rack and panel connector specifically designed for the test and measurement industry. The unique engagement mechanism contains built-in lubrication and spring-loaded locking tabs that guarantee a reliable connection test after test. The iCon receiver is designed to be PCB-compatible.

Features and Benefits

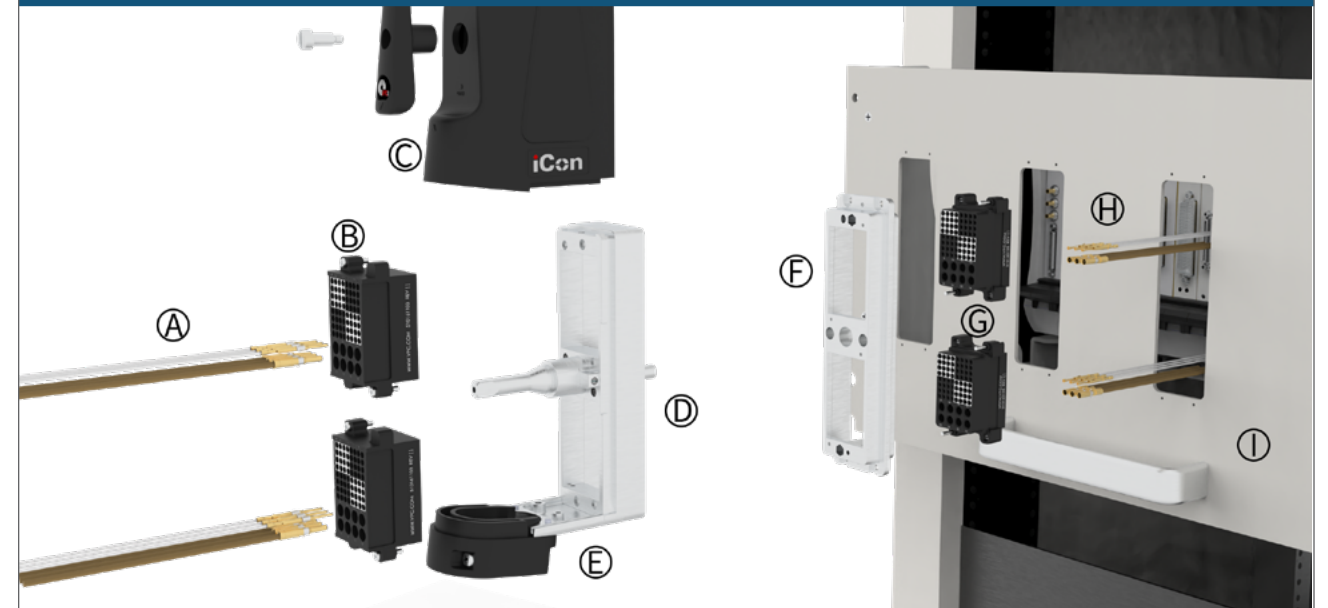
- Hybrid modules enable mix of I/O, including signal, power, coaxial, thermocouple, pneumatic, and fiber optic
- Mate up to 320 signal points with QuadraPaddle technology
- PCB-mountable
- Spring-locking tabs ensure even engagement
- Keying and guide pins ensure proper alignment and prevent incorrect mating
- Removable backshell enables easy access to wire
- Engineered for over 10,000 cycles



iCon Receiver and ITA



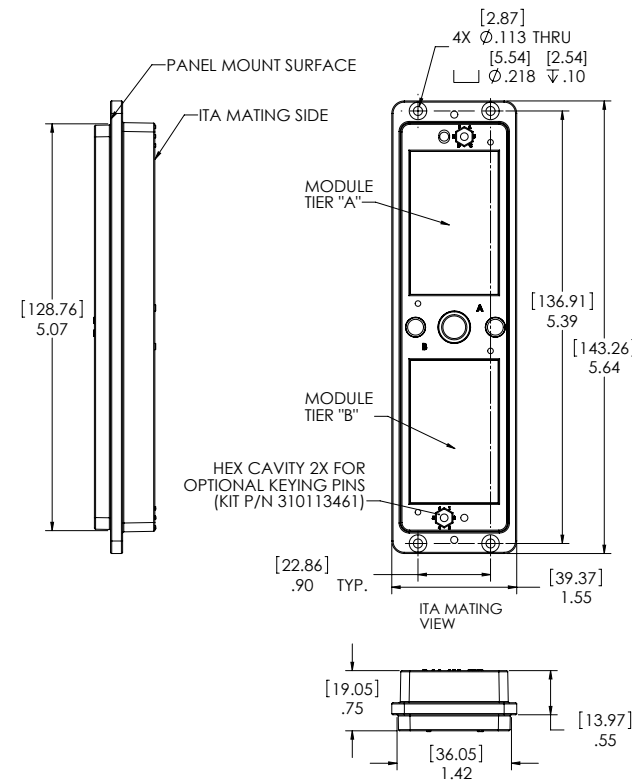
iCon Slide Mount Configuration



- A. ITA Patchcords
B. iCon ITA Module
C. Removable Backshell
D. iCon ITA Frame
E. U-shaped Cable Clamp
F. iCon Receiver
G. iCon Receiver Module
H. Receiver Patchcords
I. Mounting Panel

Part #	Description
RECEIVERS	
310 123 101	Receiver, iCon, with Protective Cover
310 123 102	Receiver, iCon, EMI-Shielded, with Protective Cover and Strain Relief
310 123 103	Receiver, iCon, Reverse Module Configuration for iCon ITA Modules, with Protective Cover
ITAS	
410 123 101	ITA, iCon, with Protective Cover
410 123 102	ITA, iCon, EMI-Shielded, with Threaded Coupling Adapter and Protective Cover
410 123 106	ITA, iCon, with Large Cable Clamp and Protective Cover
410 123 122	ITA, iCon with Oversized Backshell
CABLE ASSEMBLIES	
410 123 593	Cable Assembly, ITA, iCon, QuadraPaddle, 36", Flying Leads
MOUNTING OPTIONS	
310 113 463	Vertical Hinged Mounting Frame, iCon, 5U, 3 Positions
310 113 467	Cover Plate, iCon, for Mounting Panel Cutouts, Painted Gray
310 113 490	Cover Plate, iCon, for Mounting Panel Cutouts, Painted Black
310 113 301	Fixed Mounting Panel, iCon, 4U, 8 Positions, Painted Gray
310 113 302	Fixed Mounting Panel, iCon, 4U, 8 Positions, Black Anodized
310 113 491	Fixed Mounting Panel, iCon, 1U, 2 Positions, Painted Gray
310 113 488	Fixed Mounting Panel, iCon, 1U, 2 Positions, Black Anodized
310 113 540	Mounting Panel, iCon, 6U, 4 Positions, with Slide Mounting (slide kit required)
SLIDE KITS	
310 113 451	28" Slide Kit, Fits 26"-30" Deep Racks, Supports 180 lbs.
310 113 411	30" Slide Kit, Fits 28"-32" Deep Racks, Supports 180 lbs.
310 113 500	36" Slide Kit, Fits 34"-38" Deep Racks, Supports 180 lbs.
ACCESSORIES	
310 113 461	Keying Pin Kit, iSeries, Receiver and ITA
310 113 456	Strain Relief Plate, iCon, Receiver
310 113 582	Strain Relief Stand-off Kit, iCon, Receiver
410 112 750	Replacement Protective Cover, iCon, ITA
510 109 572	Strain Relief Plate, iCon High Power, Receiver

iCon Receiver



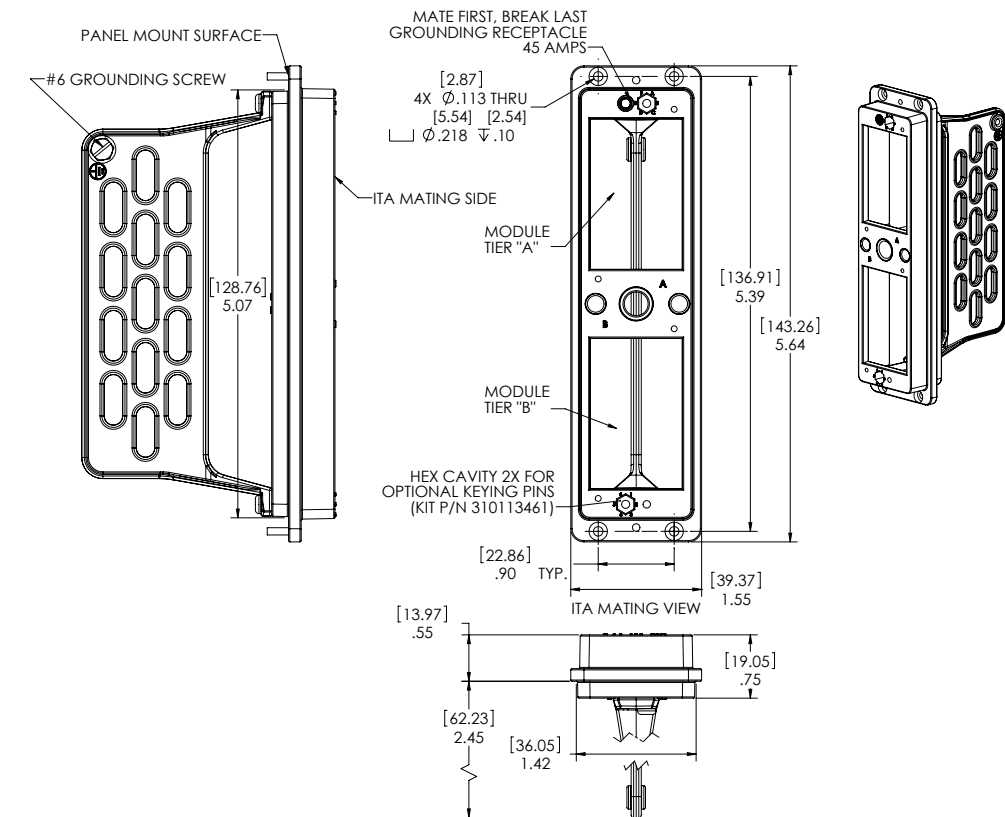
Receiver, iCon, with Protective Cover • Part # 310 123 101

Receiver Specifications	
Weight	.20 lbs [.09 kg] without protective cover
Frame Material	Nickel plated aluminum alloy
Hardware Material	Stainless steel alloy
Protective Cover Material	ABS, black
Available Module Positions	2 positions
Cycle Life	10,000 cycles
Temperature	-55° C to 125° C



The iCon receiver accepts two modules and allows a variety of signal, power, coaxial, thermocouple, and fiber optic connections. A protective cover is included with the receiver. Other accessories, such as keying pin kits and strain relief, are available.

iConEMI Receiver



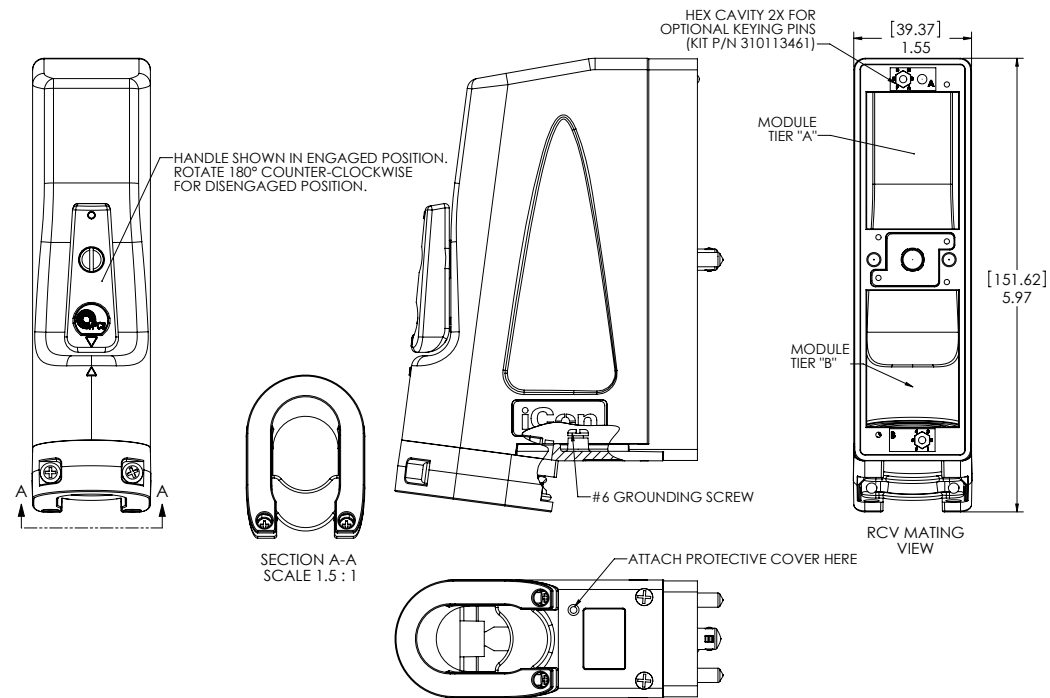
Receiver, iCon, EMI Shielded, with Protective Cover and Straining Relief • Part # 310 123 102

Receiver Specifications	
Weight	.20 lbs [.09 kg] without protective cover
Frame Material	Nickel plated aluminum alloy
Hardware Material	Stainless steel alloy
Protective Cover Material	ABS, black
Available Module Positions	2 positions
Cycle Life	10,000 cycles
Temperature	-55° C to 125° C



The iConEMI receiver has many of the standard features of the iCon, in addition to EMI protection. A ground terminal is included on the iConEMI receiver. The “mate first, break last” feature connects the earth ground circuit. The ground terminal on the strain relief prevents user shock and injury.

iCon ITA



ITA, iCon, with Protective Cover • **Part # 410 123 101**



ITA Specifications

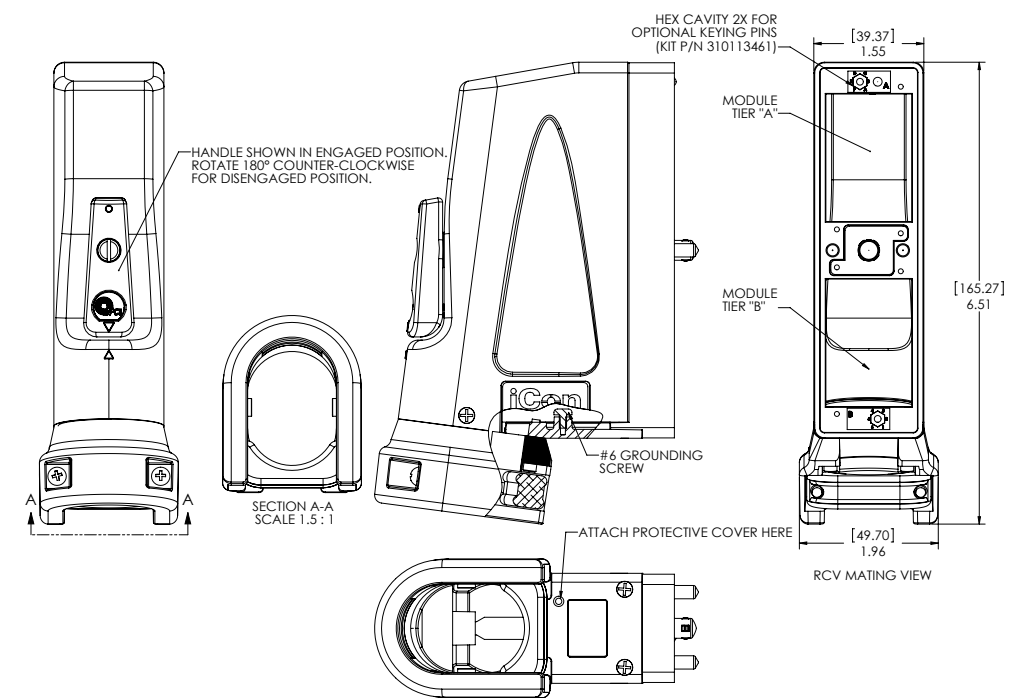
Weight	.65 lbs [.29 kg] without protective cover
Frame Material	Nickel plated aluminum alloy
Hardware Material	Stainless steel alloy
Drive Unit Material	Bronze and stainless steel
Plastic Components and Protective Cover Material	ABS, black
Cable Clamp Material	Powder coated aluminum
Available Module Positions	2 positions
Cycle Life	10,000 cycles
Temperature	-55° C to 125° C



The U-shaped cable clamp is adjustable to accommodate the amount of wires in your cable bundle.

The iCon ITA's small width and inboard handle increase the side-to-side stackability. The U-shaped cable clamp allows modules to be pre-wired before assembly and can hold cable bundles up to 1.21" diameter. The slide-off backshell allows easy access to wiring for maintenance and probing. A protective cover is included with the ITA.

iCon ITA with Large Cable Clamp



ITA, iCon, with Large Cable Clamp, with Protective Cover • **Part # 410 123 106**



ITA Specifications

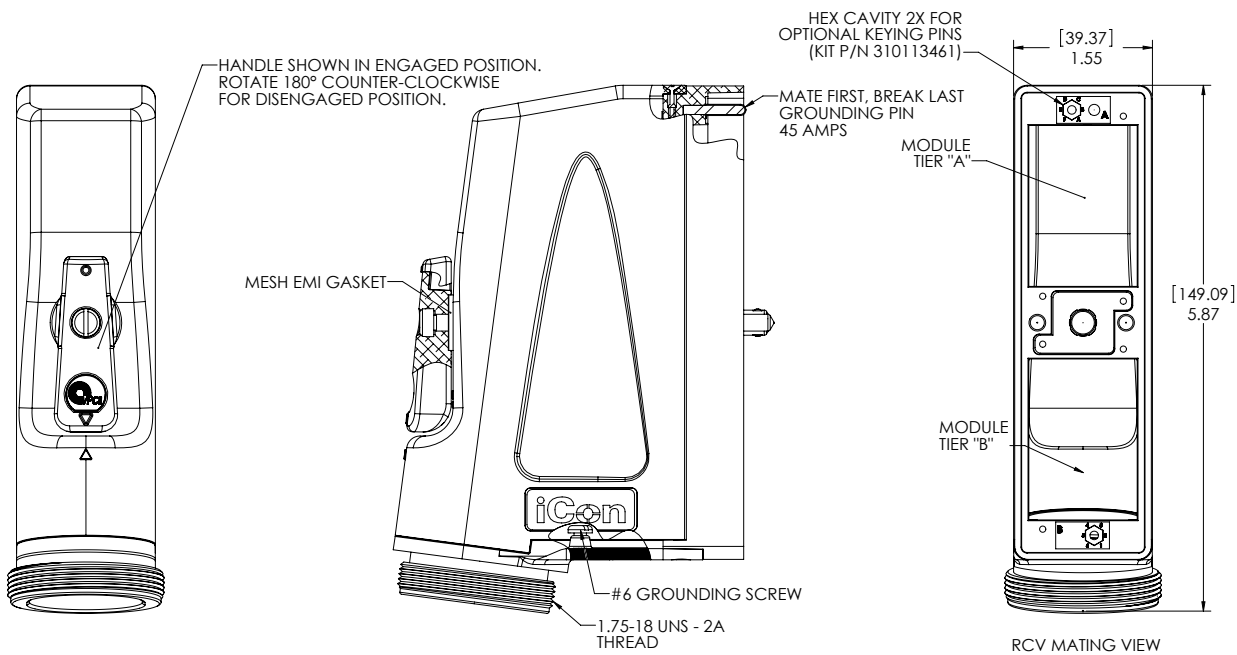
Weight	.65 lbs [.29 kg] without protective cover
Frame Material	Nickel plated aluminum alloy
Hardware Material	Stainless steel alloy
Drive Unit Material	Bronze and stainless steel
Plastic Components and Protective Cover Material	ABS, black
Cable Clamp Material	Powder coated aluminum
Available Module Positions	2 positions
Cycle Life	10,000 cycles
Temperature	-55° C to 125° C



The U-shaped cable clamp is adjustable to accommodate the amount of wires in your cable bundle.

This iCon ITA has a large cable clamp that will accommodate cable bundles up to 1.55" diameter. The slide-off backshell allows easy access to wiring for maintenance and probing. A protective cover is included with the ITA.

iCon EMI ITA



ITA, iCon, EMI Shielded, with Threaded Coupling Adapter and Protective Cover • **Part # 410 123 102**



ITA Specifications

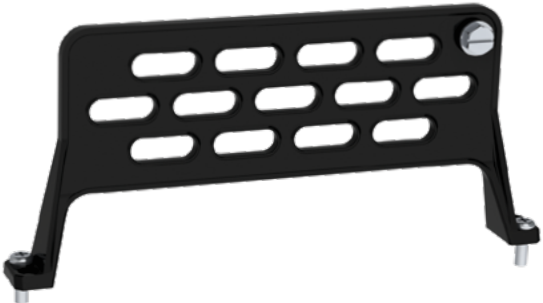
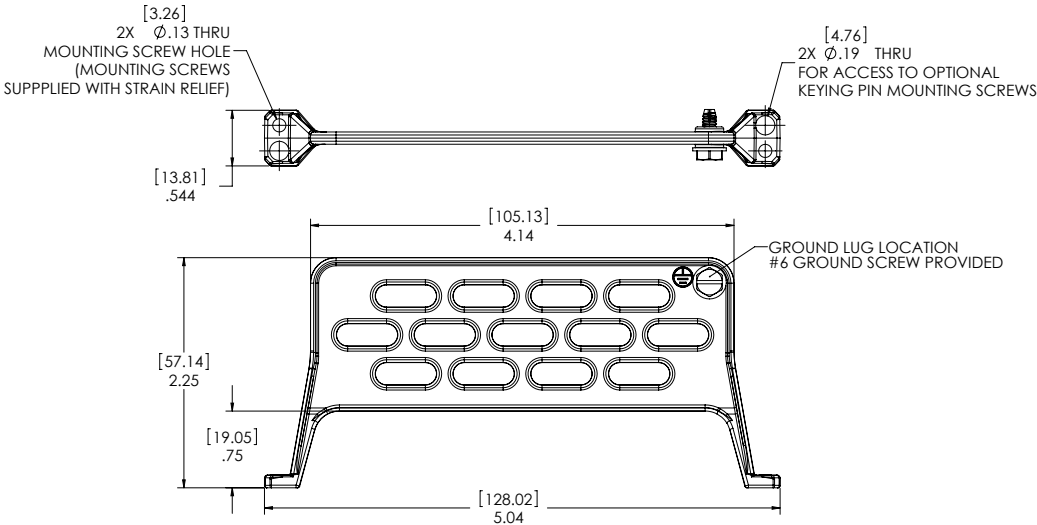
Weight	.65 lbs [.29 kg] without protective cover
Frame Material	Nickel plated aluminum alloy
Hardware Material	Stainless steel
Drive Unit Material	Bronze and stainless steel
Cable Clamp Material	Stainless steel
Plastic Components and Protective Cover Material	Stainless steel filled impact modified nylon
Available Module Positions	2 positions
Cycle Life	10,000 cycles
Temperature	-55° C to 125° C



For more information about coupling adapters, backshells, and conduits, visit vpc.com

The EMI-shielding effect on the iConEMI ITA is provided by the stainless steel fibers in the removable plastic backshell and threaded metal coupling adapter. The opening in the threaded coupling adapter provides clearance for a maximum cable bundle of 1.37" diameter. A protective cover is included with the ITA.

iCon Accessories



The strain relief plate attaches to the wiring side of the iCon receiver and can be secured before receiver installation. The strain relief is made of black powder coated aluminum. Six wire ties and mounting hardware are included.

Strain Relief Plate, iCon, Receiver • **Part # 310 113 456**



The receiver protective cover protects contacts and modules when the receiver is not in use.

Replacement Protective Cover, iCon, Receiver
Part # 310 113 678



The ITA protective cover protects contacts and modules when the ITA is not in use.

Replacement Protective Cover, iCon, ITA
Part # 410 112 750

Reveal the Possibilities

G2, G6 & G10 Solutions

G2



Compact, High Density Solution

- Ideal for applications requiring a mix of I/O, with various module configurations available
- Mate over 400 (G2), 1,400 (G6), or 2,400 (G10) signal contacts in one application
- Provide outstanding performance in various applications

Slide-off Backshell

- Slide off the backshell for easy wiring access
- Built-in cable clamps for securing all types of wiring

G6



Variety of Uses

- Easy to use in rack or chassis mount applications
- Designed for use with VPC's Vertical Hinged Mounting Frame, fixed panels or slide mount
- Optional keying pin kit distinguishes between multiple ITAs to avoid operational mismatch



G10



Standard QuadraTrack™

- Engaging mechanism in the form of a pair of precision machined slides located in the receiver
- Distributes uniform pressure to four points on the ITA during engagement and disengagement
- Precise signal integrity between the receiver and ITA is maintained by QuadraTrack™ engagement system

Multiple Mounting Options

- Vertical Hinged Mounting Frames enable hinge down access to instrumentation and wiring
- Slide mount option for the G10 allows the receiver and instrumentation to slide out for easy access to the instrument chassis
- Reduce cable length and time spent troubleshooting test system (applies to slide mount option)



G2 • 2 Module Solution

The G2 offers the reliability of VPC InterConnect technology in a high-density, compact package. Simultaneously engaging a wide range of InterConnect options in multiple configurations, the G2 provides a rapid alternative to repeated connect and disconnect of individual leads and connectors in a rugged, reliable system.

Features and Benefits

- Precision engagement mechanism engineered to mate over 400 contacts
- Cable mount ITA includes EMI-shielded backshell that slides off to allow easy access to wiring
- Standard ITA frames accommodate multiple enclosure types for a variety of fixture options
- Available keying kit distinguishes between multiple G2s used in the same application
- Modular and reconfigurable for evolving tests requirements
- Reliable connectivity beyond 20,000 cycles
- Quick and easy integration and maintenance
- Wide range of I/O options including signal, coaxial, power, pneumatic, vacuum, thermocouple, fiber optic, and PCB solutions



G2 Receiver and ITA



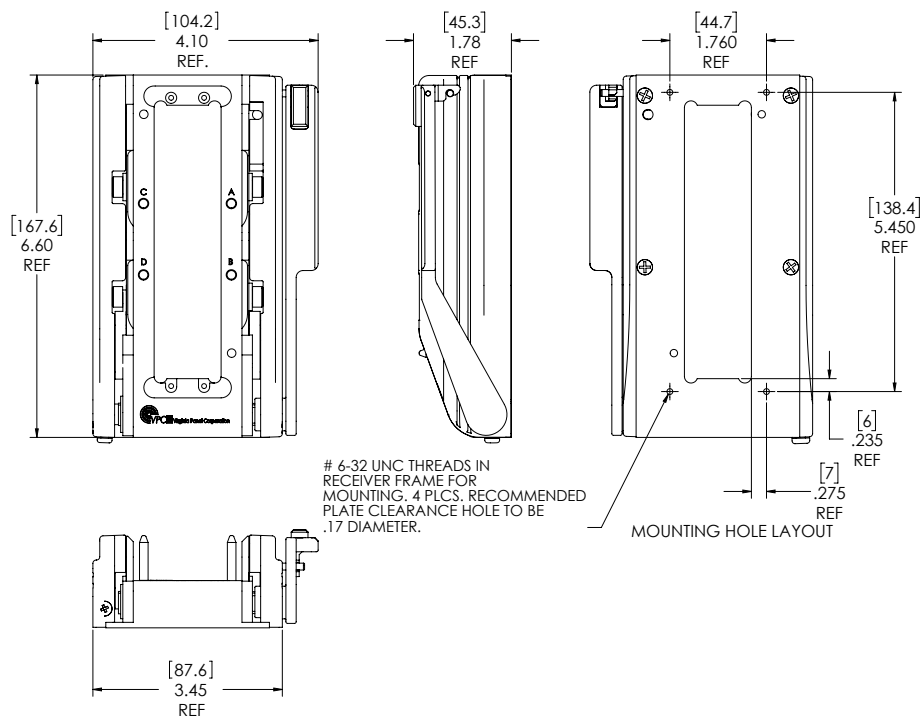
G2 Panel Mount Configuration



- | | | |
|-------------------------|------------------------|-----------------------------------|
| A. ITA Patchcords | D. ITA Removable Cover | G. G2 Receiver |
| B. ITA Module | E. G2 ITA | H. Vertical Hinged Mounting Frame |
| C. U-shaped Cable Clamp | F. Receiver Module | I. Receiver Patchcords |

Part #	Description
RECEIVER	
310 120 110	Receiver, G2, 2 Module, Keying Feature, with Protective Cover
310 120 112	Receiver, G2, 2 Module, Keying Feature, with Protective Cover, with Microswitch
ITAS	
410 120 110	ITA with Removable Cover, G2, 2 Module, Keying Feature, with Protective Cover
410 120 112	ITA, G2, 2 Module
410 120 120	ITA, G2, 2 Module with 10 Module Enclosure and Adapter Plate, with Protective Cover
ENCLOSURE	
410 112 686	Enclosure, 2 Module (for ITA Part # 410 120 112)
MOUNTING OPTIONS	
310 113 391	Vertical Hinged Mounting Frame, G2, 5U, 3 Position (2 Blank Plates Included)
310 113 358	Vertical Hinged Mounting Frame, 5U, Blank
310 113 395	Fixed Mounting Panel, G2, 5U, 3 Position (2 Blank Plates Included)
ACCESSORIES	
310 113 394	Replacement Protective Cover, G2, Receiver
410 112 680	Replacement Protective Cover, G2, ITA
310 113 371	Chassis Mount Kit for Pickering 40-908, 40-914, 40-918
310 113 417	Chassis Mount Kit for National Instruments Chassis (PXI-1044/1045/1065 and PXIe-1065/1075)
310 113 589	Chassis Mount Kit for Keysight M9018A Chassis
310 118 112	Keying Pin Kit, Receiver/ITA
410 112 599	Threaded Coupling Adapter, G2, G6, G10, ITA, for Conduit Harnessing Assemblies/Clamps

G2 Receiver • 2 Module Solution



Receiver, G2, 2 Module, Keying Feature, with Protective Cover • **Part # 310 120 110**

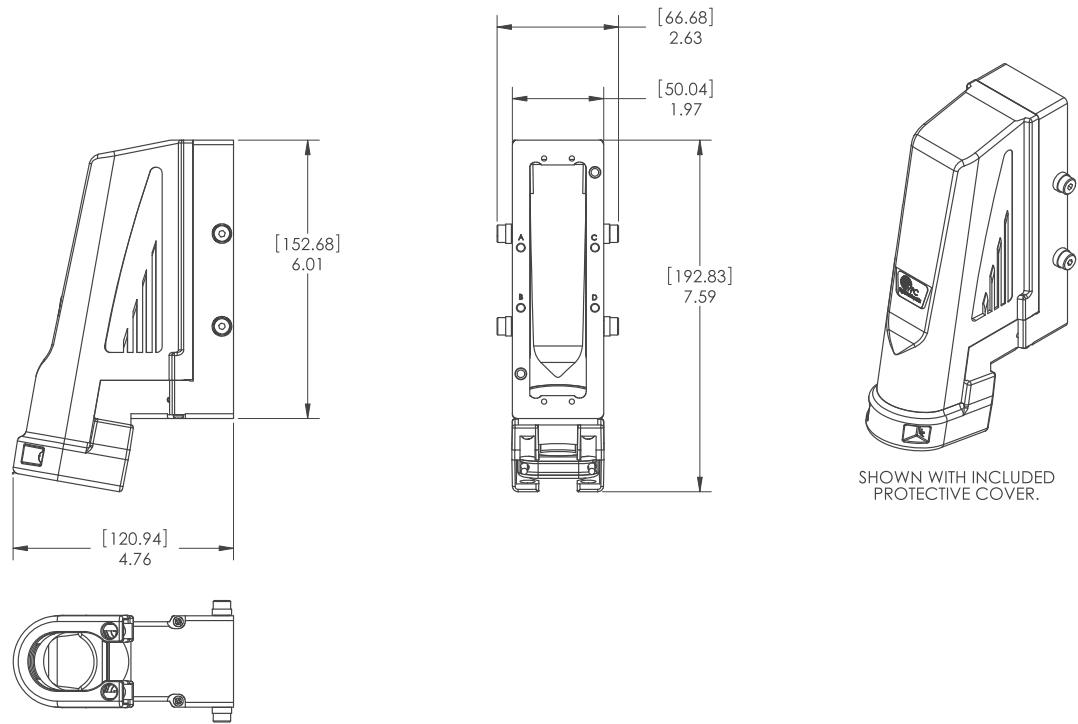
Receiver Specifications

Weight	1.82 lbs [.82 kg]
Side Material	ABS-polycarbonate blend
Frame Material	Anodized aluminum
Slide Material	Nickel plated steel
Linkage, Handle, Latch Material	Stainless steel
Available Module Slots	2 positions
Cycle Life	20,000 cycles
Temperature	-55° C to 85° C
Max. Weight Support	25 lbs @ 6" [11 kg @ 15.24 cm]



The G2 receiver is equipped with a locking handle and nickel plated steel slides that engage up to 400 contact points. It allows a high amount of I/O within a compact and rugged device. A protective cover is included with the receiver.

G2 ITA with Removable Cover • 2 Module Solution



ITA with Removable Cover, G2, 2 Module, Keying Feature, with Protective Cover • **Part # 410 120 110**

ITA Specifications

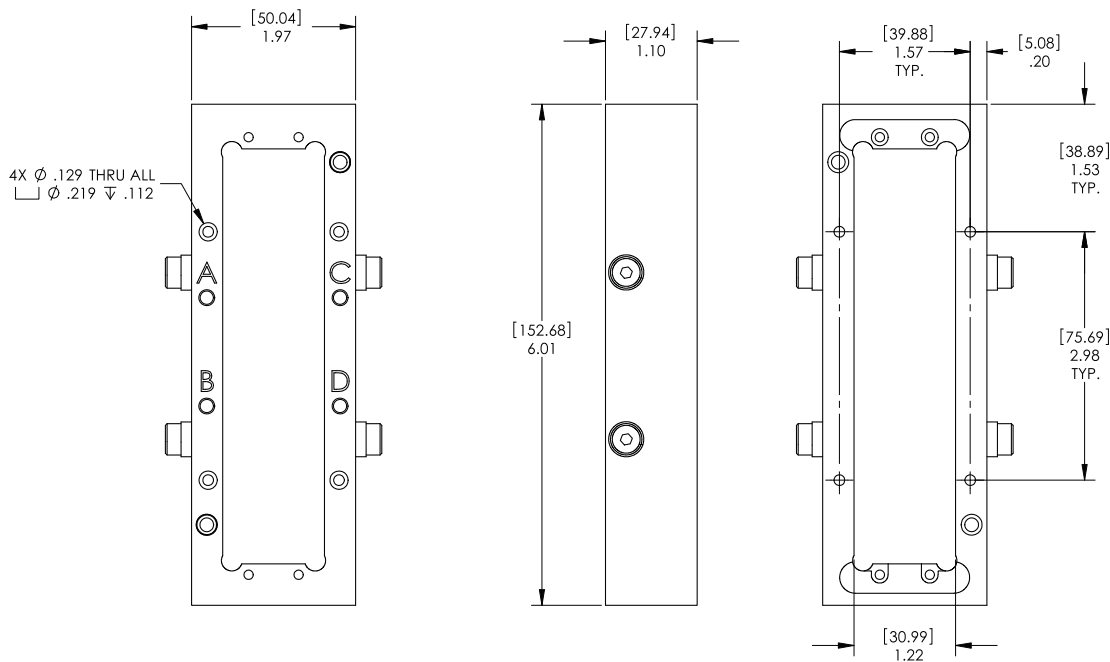
Weight	1.65 lbs [.75 kg]
Cover Material	EMI-shielded nylon
Frame Material	Nickel plated zinc alloy
Available Module Slots	2 positions
Cycle Life	20,000 cycles
Temperature	-55° C to 85° C



The U-shaped cable clamp is adjustable to accommodate the amount of wires in your cable bundle.

The G2 ITA is equipped with a removable EMI-shielded backshell. The backshell slides up to provide access to wires and connectors and is secured by two screws. The removable and adjustable U-shaped cable clamp is attached by screws to the ITA frame. A protective cover is included with the ITA.

G2 ITA • 2 Module Solution



ITA, G2, 2 Module • Part # 410 120 112

ITA Specifications

Weight	.61 lbs [.28 kg]
Frame Material	Chromated aluminum
Available Module Slots	2 positions
Cycle Life	20,000 cycles
Temperature	-55° C to 85° C



The performance and versatility of the two module ITA with keying feature present a convenient alternative to limited low I/O connectors. The aluminum frame has through-holes to mount an enclosure or other custom components to the wiring side of the ITA.

G2 Accessories • 2 Module Solution



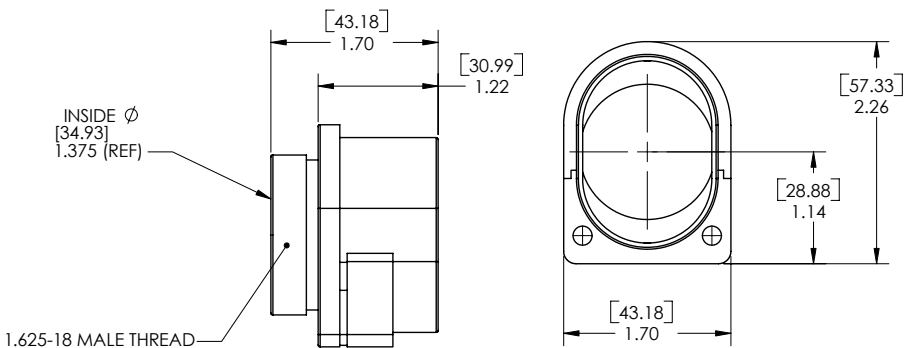
The receiver protective cover protects contacts and modules when the receiver is not in use.

Replacement Protective Cover, G2, Receiver
Part # 310 113 394

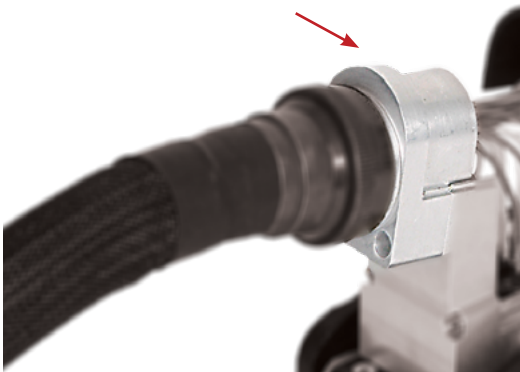


The vinyl ITA protective cover protects contacts and modules when the ITA is not in use.

Replacement Protective Cover, G2, ITA
Part # 410 112 680



The threaded coupling adapter is designed to accommodate military and commercial circular backshells for conduit or strain relief when designing for general and heavy-duty applications. The male thread size is 1.625"-18".



Threaded Coupling Adapter, G2, G6, G10, ITA, for Conduit Harnessing Assemblies/Clamps
Part # 410 112 599

G6 • 6 Module Solution

The six module solution provides versatility on a small footprint. This small, high-density InterConnect can simultaneously engage over 1,400 signal contacts. The adaptable G6 integrates a wide variety of I/O options in various module configurations. The contacts are incorporated into cable assemblies for specific instruments. The Vertical Hinged Mounting Frame is suitable for rack or chassis mount applications and offers quick access to resources and cables. The ITA has a unique, removable, EMI-shielded backshell which allows easy access to the modules and contacts.

Features and Benefits

- Precision engagement mechanism engineered to mate over 1,400 contacts
- Cable mount ITA includes EMI-shielded backshell that slides off to allow easy access to wiring
- Cable mount ITA accepts standard circular cable adapters
- Standard ITA frames accommodate multiple enclosure types for a variety of fixture options
- Optional keying kit distinguishes between multiple G6s used in the same application
- Modular and reconfigurable for evolving tests requirements
- Reliable connectivity beyond 20,000 cycles
- Quick and easy integration and maintenance
- Wide range of I/O options including signal, coaxial, power, pneumatic, vacuum, thermocouple, fiber optic, and PCB solutions

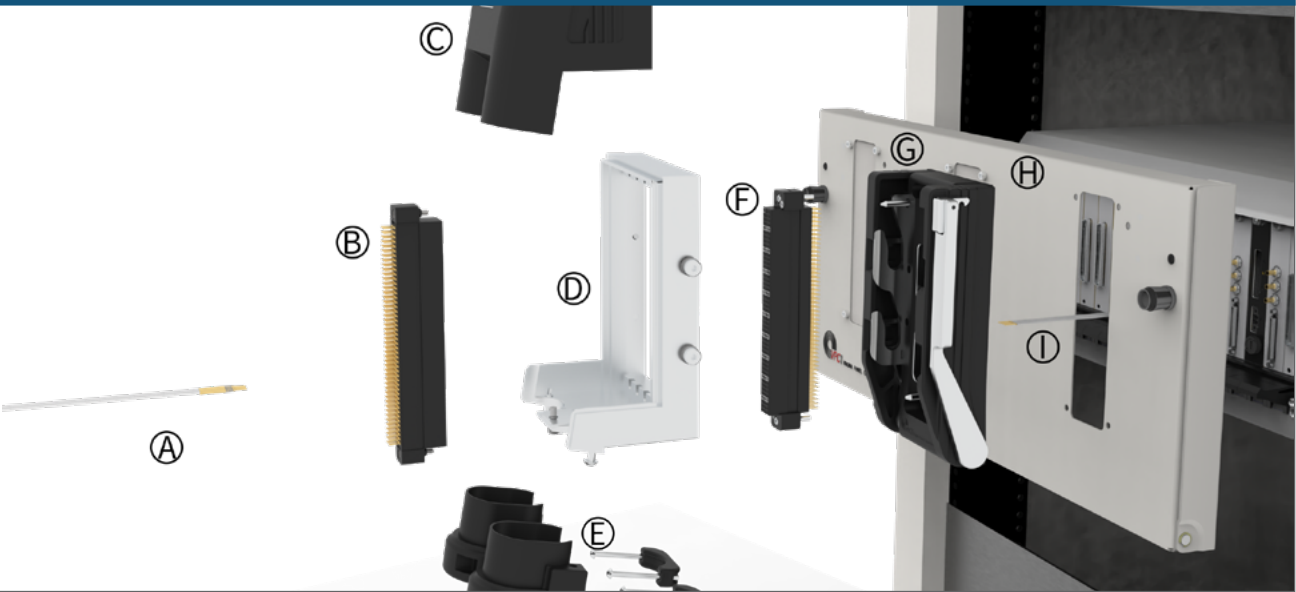


G6 Receiver and ITA



G6 Mounted to Vertical Hinged Mounting Frame

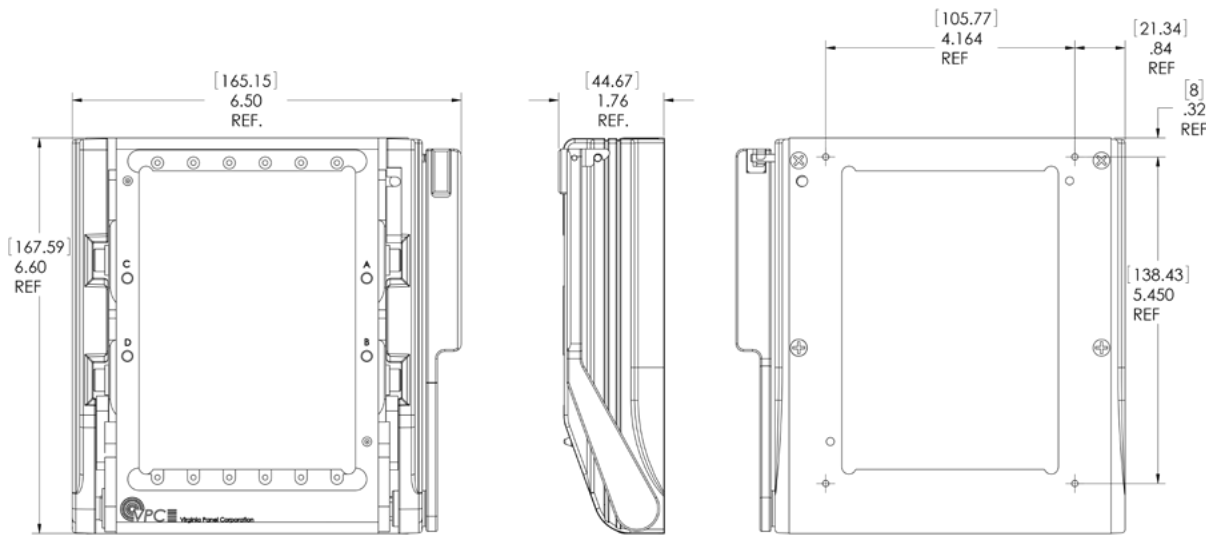
G6 Panel Mount Configuration



A. ITA Patchcords	D. ITA Removable Cover	G. G6 Receiver
B. ITA Module	E. G6 ITA	H. Vertical Hinged Mounting Frame
C. U-shaped Cable Clamp	F. Receiver Module	I. Receiver Patchcords

Part #	Description
RECEIVERS	
310 104 318	Receiver, G6, 6 Module with Keying Feature
310 104 344	Receiver, G6, 6 Module with Keying Feature and EMI Gasket
310 104 419	Receiver, Two G6, 6 Module, with Slide Mounting (slide kit required)
ITAS	
410 104 273	ITA, G6, 6 Module, Keying Feature, with Protective Cover
410 104 118	ITA, 9006, 6 Module
410 104 331	ITA, G6, 6 Module
410 104 288	ITA, G6, 6 Module, for EMI
ENCLOSURE	
410 112 401	Enclosure, 6 Module, 4" Deep with Hinge (for ITA Part # 410 104 331)
MOUNTING OPTIONS	
310 113 341	Vertical Hinged Mounting Frame, G6, 5U, 1 Position
310 113 397	Vertical Hinged Mounting Frame, G6, 5U, 2 Positions
310 113 358	Vertical Hinged Mounting Frame, 5U, Blank
ACCESSORIES	
310 113 158	Protective Cover, G6, Receiver
410 112 684	Replacement Protective Cover, G6, ITA
310 104 450	Handle Extension, G6, Receiver
310 113 371	Chassis Mount Kit for Pickering 40-908, 40-914, 40-918
310 113 417	Chassis Mount Kit for National Instruments Chassis (PXI-1044/1045/1065 and PXIe-1065/1075)
310 113 589	Chassis Mount Kit for Keysight M9018A Chassis
310 118 112	Keying Pin Kit, Receiver/ITA
410 112 599	Threaded Coupling Adapter, G2, G6, G10, ITA, for Conduit Harnessing Assemblies/Clamps

G6 Receiver • 6 Module Solution



Receiver, G6, 6 Module, Keying Feature • **Part # 310 104 318**

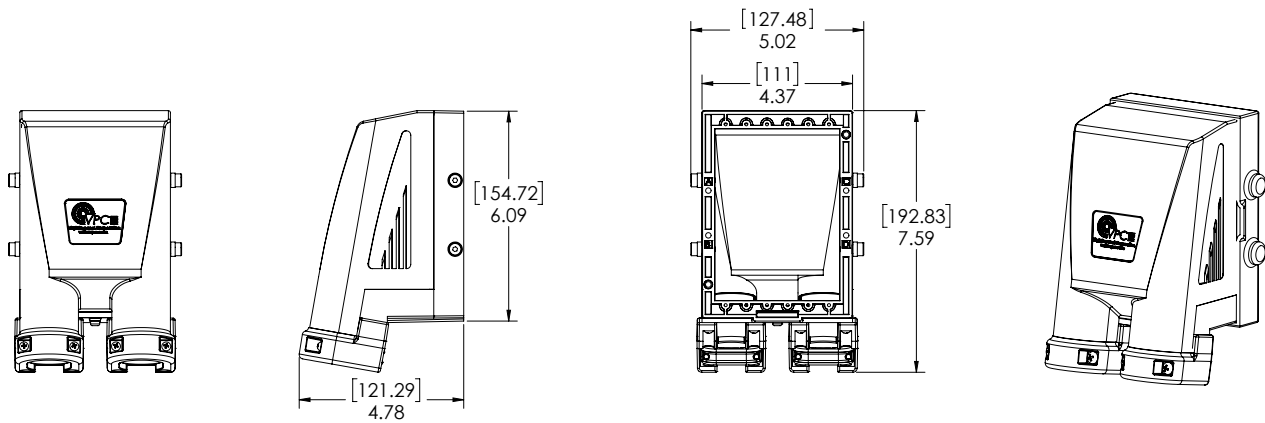
Receiver Specifications

Weight	1.94 lbs [.88 kg]
Side Material	ABS-polycarbonate blend
Frame Material	Anodized aluminum
Slide Material	Nickel plated steel
Linkage, Handle, Latch Material	Stainless steel
Available Module Slots	6 positions
Cycle Life	20,000 cycles
Temperature	-55° C to 85° C
Max. Weight Support	25 lbs @ 6" [11 kg @ 15.24 cm]
Max. Mating Force	630 lbs [285.8 kg]



The G6 receiver is equipped with a locking handle and nickel plated steel slides that engage up to 1,440 signal contact points. It allows a high amount of I/O within a compact and rugged device.

G6 ITA with Removable Cover • 6 Module Solution



SHOWN WITH INCLUDED PROTECTIVE COVER.

ITA, G6, 6 Module, Removable Cover, Keying Feature, with Protective Cover • **Part # 410 104 273**

ITA Specifications

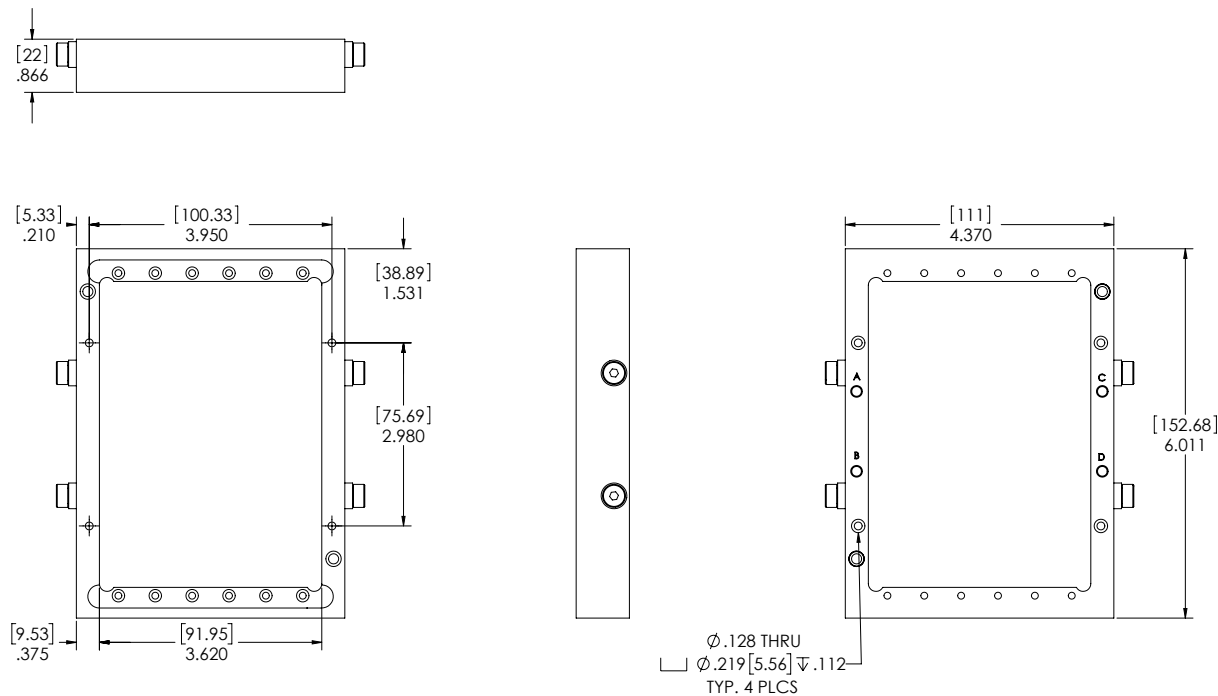
Weight	1.4 lbs [.63 kg]
Cover Material	EMI-shielded nylon
Frame Material	Chromated aluminum
Available Module Slots	6 positions
Cycle Life	20,000 cycles
Temperature	-55° C to 85° C
Max. Mating Force	630 lbs [285.8 kg]



The U-shaped cable clamp is adjustable to accommodate the amount of wires in your cable bundle.

The G6 ITA is equipped with a removable EMI-shielded backshell. The backshell slides up to provide access to wires and connectors and is secured by one screw. The removable and adjustable U-shaped cable clamp is attached by screws to the ITA frame. A protective cover is included with the ITA.

G6 ITA • 6 Module Solution



ITA, G6, 6 Module • **Part # 410 104 331**



ITA Specifications

Weight	.75 lbs [.34 kg]
Frame Material	Chromated aluminum
Available Module Slots	6 positions
Cycle Life	20,000 cycles
Temperature	-55° C to 85° C
Max. Mating Force	630 lbs [285.8 kg]

The six module ITA allows you to use an existing enclosure or create your own enclosure for your specific application. For EMI protection see Part # 410 104 288.

G6 Accessories • 6 Module Solution



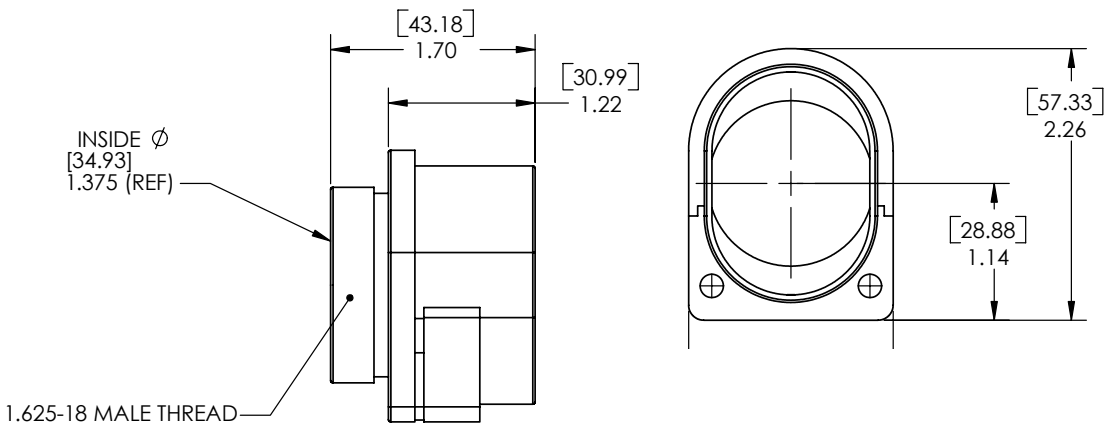
The receiver protective cover protects contacts and modules when the receiver is not in use.

Protective Cover, G6, Receiver
Part # 310 113 158

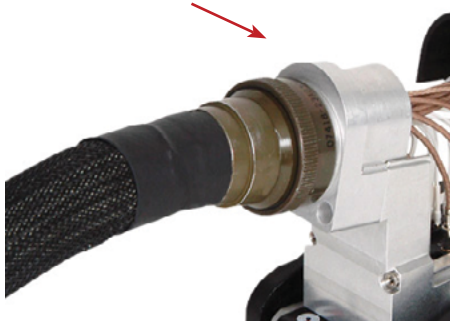


The vinyl ITA protective cover protects contacts and modules when the ITA is not in use.

Replacement Protective Cover, G6, ITA
Part # 410 112 684



The threaded coupling adapter is designed to accommodate military and commercial circular backshells for conduit or strain relief when designing for general and heavy-duty applications. The male thread size is 1.625"-18" for this application.



Threaded Coupling Adapter, G2, G6, G10, ITA, for Conduit Harnessing Assemblies/Clamps
Part # 410 112 599

G10 • 10 Module Solution

The 10 module solution provides great reliability while simultaneously engaging up to 2,400 signal contacts. The adaptable G10 integrates a wide variety of I/O options in various module configurations. The contacts are incorporated into cable assemblies for specific instruments. The Vertical Hinged Mounting Frame and slide mount option are suitable for rack or chassis mount applications and offer quick access to resources and cables. The ITA has a unique, removable, EMI-shielded backshell which allows easy access to the modules and contacts.

Features and Benefits

- Precision engagement mechanism engineered to mate up to 2,400 contacts
- Cable mount ITA includes EMI-shielded backshell that slides off to allow easy access to wiring
- Cable mount ITA accepts standard circular cable adapt-ers
- Standard ITA frames accommodate multiple enclosure types for a variety of fixture options
- Modular and reconfigurable for evolving tests require-ments
- Reliable connectivity beyond 20,000 cycles
- Quick and easy integration and maintenance
- Wide range of I/O options including signal, coaxial, power, pneumatic, vacuum, thermocouple, fiber optic, and PCB solutions

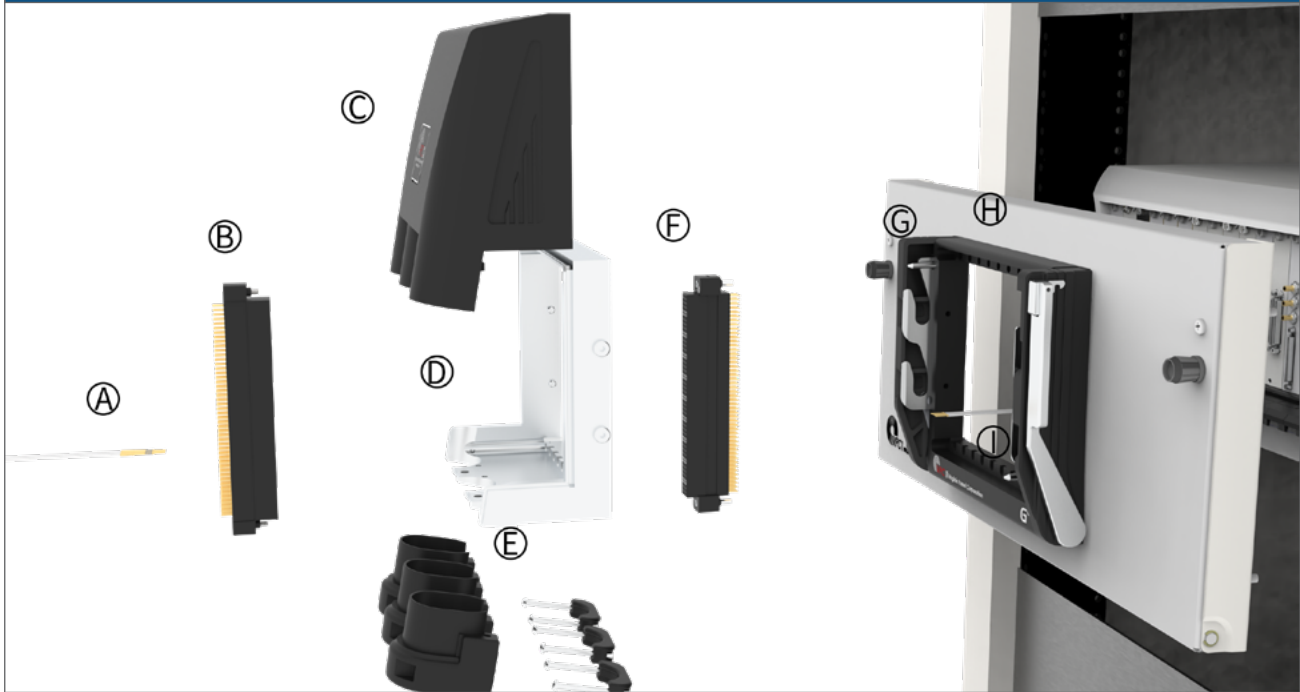


G10 Receiver and ITA



G10 Mounted to Vertical Hinged Mounting Frame

G10 Panel Mount Configuration



- A. ITA Patchcords

B. ITA Module

C. ITA Removable Cover

D. G10 ITA
- E. U-shaped Cable Clamp

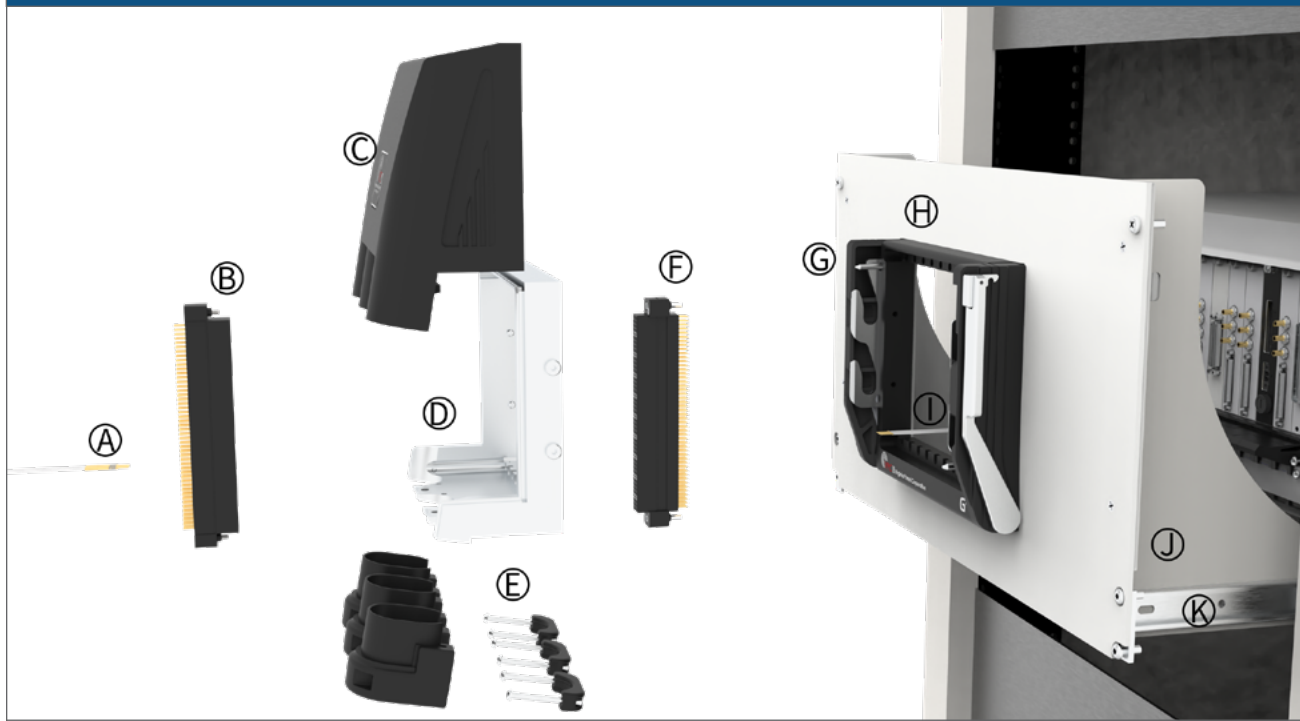
F. Receiver Module

G. G10 Receiver

H. Vertical Hinged Mounting Frame
- I. Receiver Patchcords

Part #	Description
RECEIVERS	
310 104 317	Receiver, G10, 10 Module
310 104 360	Receiver, G10, 10 Module with 4.34" [110.24 mm] Extended Handle
310 104 366	Receiver, G10, 10 Module, EMI Gasket
ITAS	
410 104 272	ITA with Removable Cover, G10, 10 Module, with Protective Cover
410 104 375	ITA, G10, 10 Module
410 104 123	ITA, 9010, 10 Module
ENCLOSURES	
410 112 291	Enclosure, 10 Module, Hinged Cover Plate
410 112 198	Enclosure, 25 Module, Hinged Cover Plate, 4" Deep
410 112 252	Enclosure, 10 Module, 3 Cable Clamps
410 112 424	Adapter Plate, allows 10 Module ITA to accept 25 Module Enclosures
410 114 138	Enclosure, 10 Module, 4" Deep, 3 Cable Clamps
MOUNTING OPTIONS	
310 113 342	Vertical Hinged Mounting Frame, G10, 5U
310 113 408	Vertical Hinged Mounting Frame, G10, 5U, Cutout on Right
310 113 358	Vertical Hinged Mounting Frame, 5U, Blank
ACCESSORIES	
310 113 154	Protective Cover, G10, Receiver
410 112 685	Replacement Protective Cover, G10, ITA
310 113 417	Chassis Mount Kit for National Instruments Chassis (PXI-1044/1045/1065 and PXIe-1065/1075)
310 113 371	Chassis Mount Kit for Pickering 40-908, 40-914, 40-918
310 113 589	Chassis Mount Kit for Keysight M9018A Chassis
410 112 599	Threaded Coupling Adapter, G2, G6, G10, ITA, for Conduit Harnessing Assemblies/Clamps
410 114 133	Enclosure Accessory Kit, Gas Spring for Sloped Enclosure

G10 Slide Mount Configuration



- A. ITA Patchcords

B. ITA Module

C. ITA Removable Cover

D. G10 ITA

E. U-shaped Cable Clamp
- F. Receiver Module

G. G10 Receiver

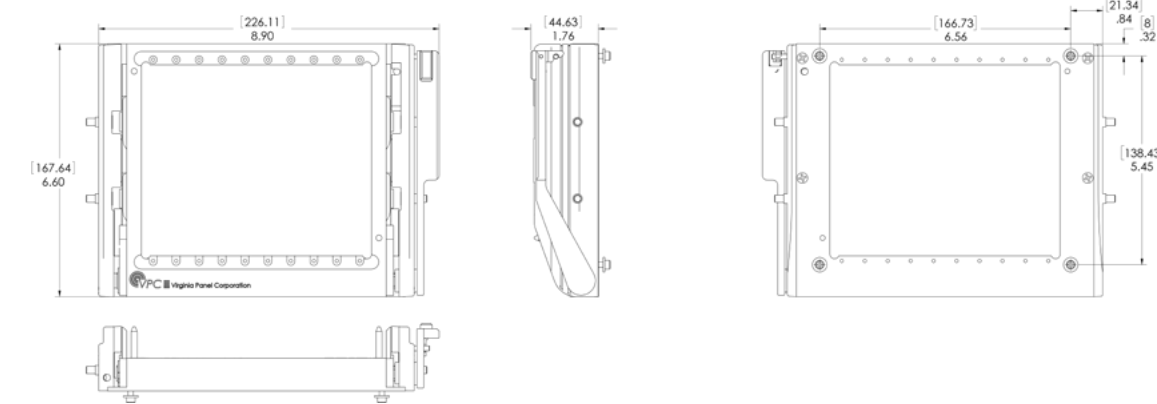
H. Mounting Panel

I. Receiver Patchcords

J. Mounting Flange
- K. Slide Kit

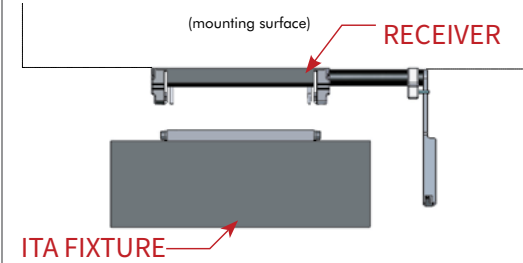
Part #	Description
RECEIVER	
310 120 146	Receiver, G10, 10 Module, with Slide Mounting Kit (slide kit required)
ITAS	
410 104 272	ITA with Removable Cover, G10, 10 Module, with Protective Cover
410 104 375	ITA, G10, 10 Module
ENCLOSURES	
410 112 252	Enclosure, 10 Module, 3 Cable Clamps
410 112 291	Enclosure, 10 Module, Hinged Cover Plate
410 112 198	Enclosure, 25 Module, Hinged Cover Plate, 4" Deep
410 112 424	Adapter Plate, allows 10 Module ITA to accept 25 Module Enclosures
410 114 138	Enclosure, 10 Module, 4" Deep, 3 Cable Clamps
SLIDE KITS	
310 113 451	28" Slide Kit, Fits 26"-30" Deep Racks, Supports 180 lbs.
310 113 411	30" Slide Kit, Fits 28"-32" Deep Racks, Supports 180 lbs.
310 113 500	36" Slide Kit, Fits 34"-38" Deep Racks, Supports 180 lbs.
ACCESSORIES	
310 113 154	Protective Cover, G10, Receiver
410 112 685	Replacement Protective Cover, G10, ITA

G10 Receiver • 10 Module Solution



Receiver, G10, 10 Module • Part # 310 104 317

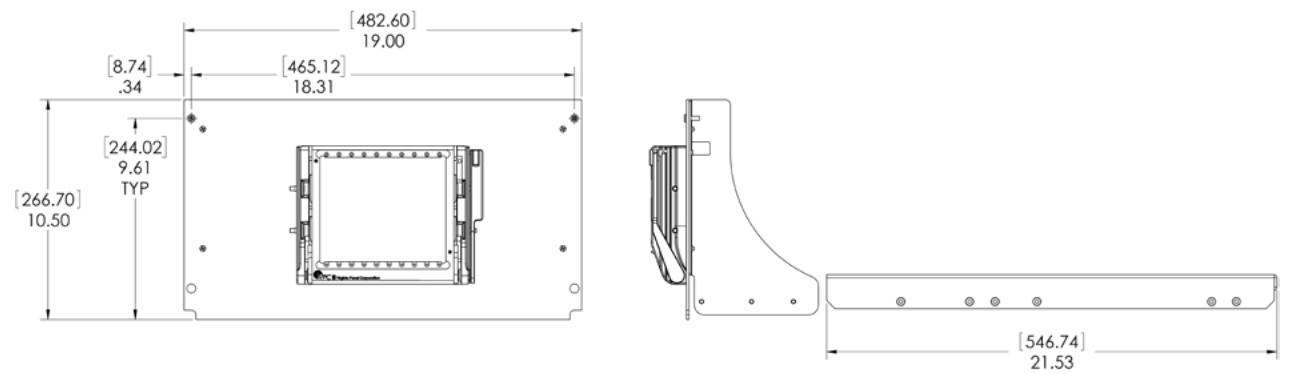
Receiver Specifications	
Weight	2.20 lbs [1.0 kg]
Side Material	ABS-polycarbonate blend
Frame Material	Anodized aluminum
Slide Material	Nickel plated steel
Linkage, Handle, Latch Material	Stainless steel
Available Module Slots	10 positions
Cycle Life	20,000 cycles
Temperature	-55° C to 85° C
Max. Weight Support	25 lbs @ 6" [11 kg @ 15.25 cm]
Max. Mating Force	630 lbs [285.8 kg]



This receiver is also available with a 4.34" [110.24 mm] extended handle, Part # 310 104 360, to accommodate wide fixtures.

The G10 receiver is equipped with a locking handle and nickel plated steel slides that engage up to 2,400 contact points. It allows a high number of I/O within a compact and rugged device.

G10 Receiver with Slide Mounting Kit • 10 Module Solution



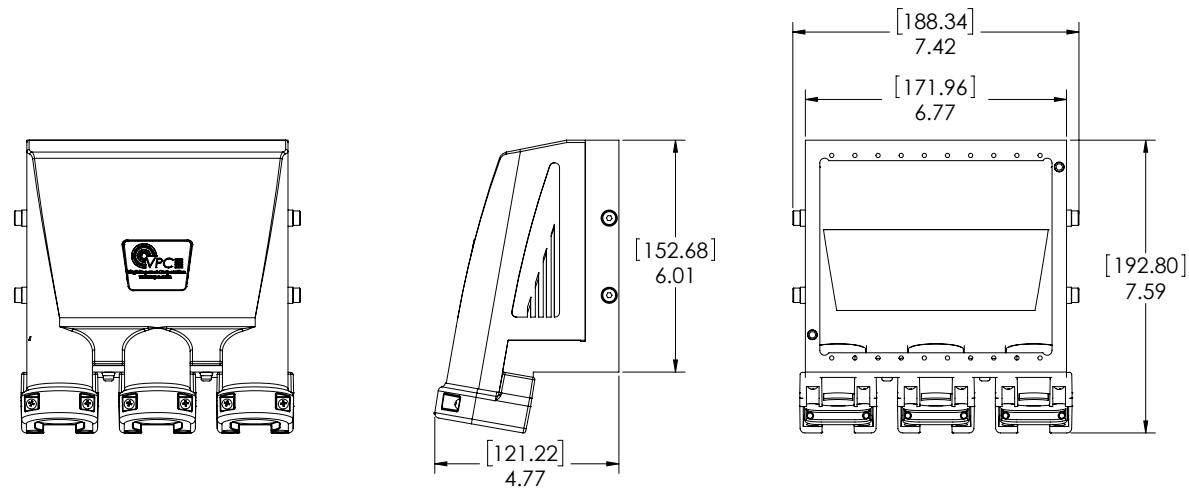
Receiver, G10, 10 Module, with Slide Mounting Kit (slide kit required) • **Part # 310 120 146**

Receiver Specifications	
Weight	11.5 lbs [5.22 kg]
Side Material	ABS-polycarbonate blend
Frame Material	Anodized aluminum
Slide Material	Nickel plated steel
Linkage, Handle, Latch Material	Stainless steel
Mounting Plate, Mounting Flange, Instrument Bracket Material	Aluminum
Available Module Slots	10 positions
Cycle Life	20,000 cycles
Temperature	-55° C to 85° C
Max. Weight Support	25 lbs @ 6" [11 kg @ 15.25 cm]
Max. Mating Force	630 lbs [285.8 kg]



The G10 receiver is equipped with a locking handle and nickel plated steel slides that engage up to 2,400 contact points. It allows a high number of I/O within a compact and rugged device. This receiver is designed to work with a slide kit and includes a mounting bracket, flanges, and instrument bracket. A slide kit is required for use.

G10 ITA with Removable Cover • 10 Module Solution



ITA with Removable Cover, G10, 10 Module, with Protective Cover • **Part # 410 104 272**

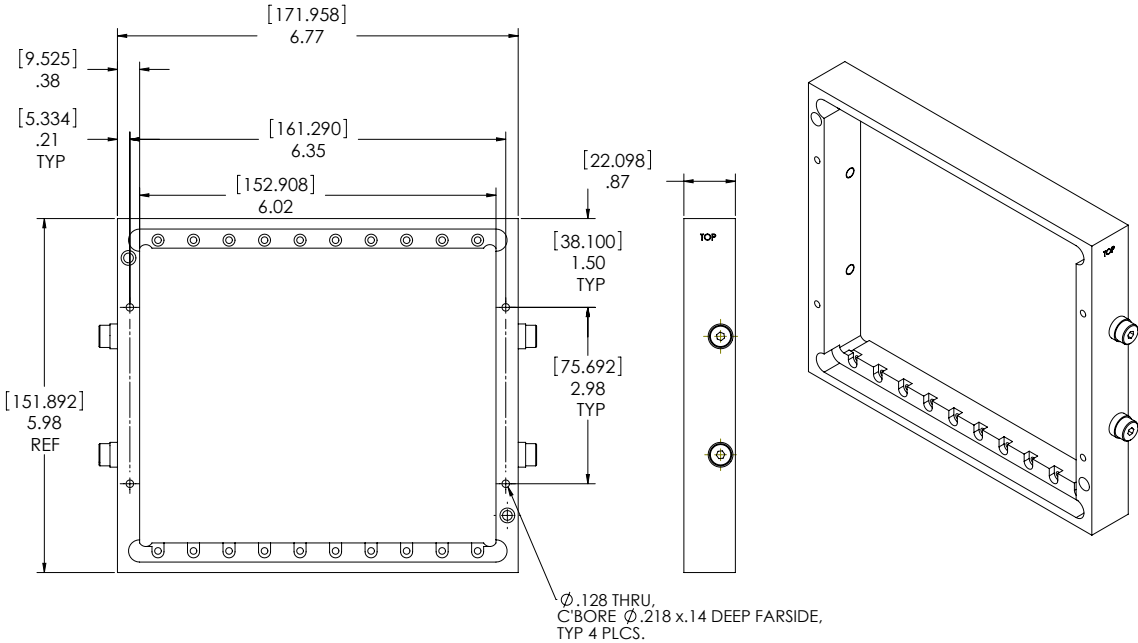
ITA Specifications	
Weight	2.1 lbs [.95 kg]
Cover Material	EMI-shielded nylon
Frame Material	Chromated aluminum
Available Module Slots	10 positions
Cycle Life	20,000 cycles
Temperature	-55° C to 85° C
Max. Mating Force	630 lbs [285.8 kg]



The U-shaped cable clamp is adjustable to accommodate the amount of wires in your cable bundle.

The G10 ITA is equipped with a removable EMI-shielded backshell. The backshell slides up to provide access to wires and connectors and is secured by two screws. The removable and adjustable U-shaped cable clamp is attached by screws to the EMI-shielded backshell. A protective cover is included with the ITA.

G10 ITA • 10 Module Solution



ITA, G10, 10 Module • **Part # 410 104 375**

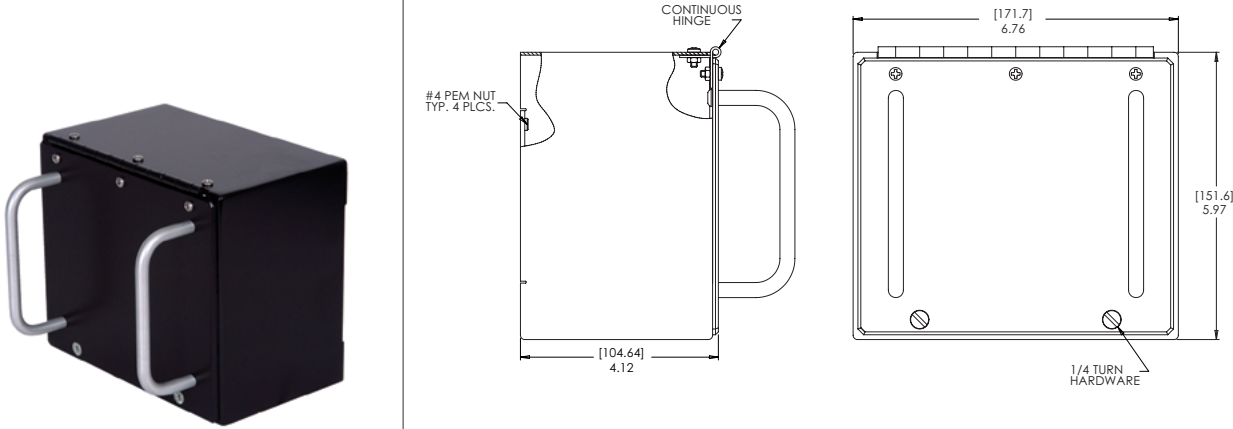


ITA Specifications

Weight	.55 lbs [.24 kg]
Frame Material	Chromated aluminum
Available Module Slots	10 positions
Cycle Life	20,000 cycles
Temperature	-55° C to 85° C
Max. Mating Force	630 lbs [285.8 kg]

This 10 module ITA uses VPC enclosures or gives you the option to create your own enclosure or fixture needed for your application.

G10 Accessories • 10 Module Solution



This aluminum enclosure for a 10 module ITA Part # 410 104 375. The enclosure has handles and includes a hinged cover secured with two 1/4 turn fasteners.

Enclosure, 10 Module, with Hinged Cover Plate • **Part # 410 112 291**



The receiver protective cover protects contacts and modules when the receiver is not in use.

Protective Cover, G10, Receiver
Part # 310 113 154



The vinyl ITA protective cover protects contacts and modules when the ITA is not in use.

Replacement Protective Cover, G10, ITA
Part # 410 112 685

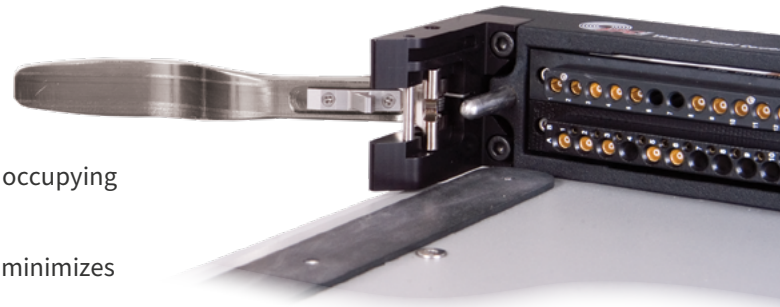
Go Horizontal

S6, G12 & G12x

Low Profile 1- 3U Height

The S6's low profile allows over 1,400 points while only occupying 1-3U of rack space

Horizontal layout maximizes the module positions and minimizes the required rack space



Tabletop Configuration

The tabletop configurations allow the S6, G12 and G12x to be mounted to any horizontal surface
Four removable rubber feet to enable permanent tabletop mounting configurations
Rear covers are available to protect wiring from the receiver to the test equipment

Slide Configuration

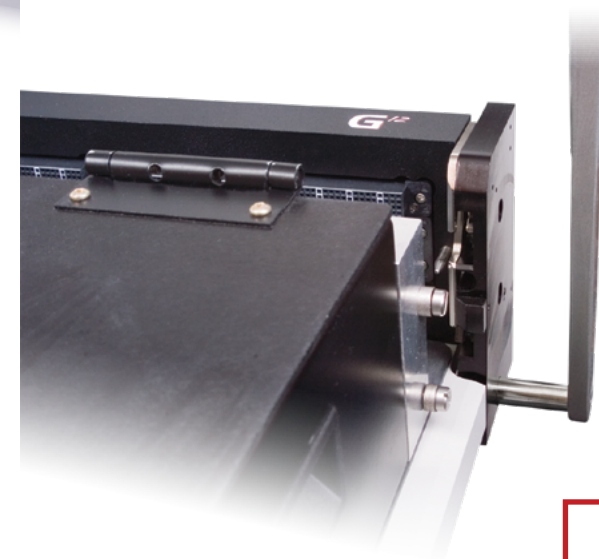
The slide kits for the S6, G12 and G12x allow access to test instrumentation and wiring
Multiple accessories are available for this configuration such as the cable tray, the keyboard tray kit, and adjustable leg kit
Slide mounts can support fixture weights up to 180 lbs [81.65 kg] and up to 350 lbs [158.76 kg] with leg kit

G12



Easy Glide Docking

Provides an easy way of guiding a fixture into position prior to engagement
Runners along the platform provide smooth-sliding action
Ideal feature when using large scale fixtures
Alignment pins provide accurate engagement



Positive-Lock Latching Mechanisms - S6

Locking latches enable secure engagement
Guide pins guarantee consistent lead-in with every connection
Each lever provides two points of contact for even engagement distribution

G12x



S6 • 6 Module Solution

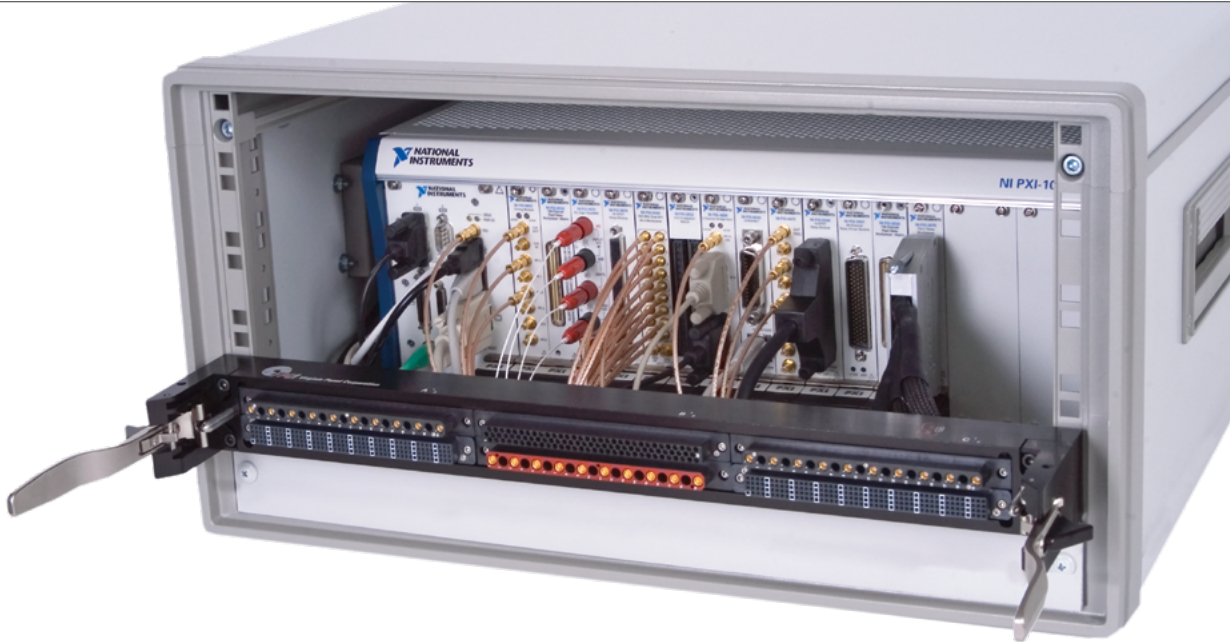
The S6 provides robust, reliable and repeatable testing capabilities for small and intermediate size test applications. With easy glide docking created by the smooth motion of the engagement handles, it is fixture ready with over 1,400 contact points within a 1U height. The S6 has many configuration possibilities with a wide range of I/O options. Its low profile solution is also designed to accept a variety of PCB solutions.



S6 Receiver and ITA

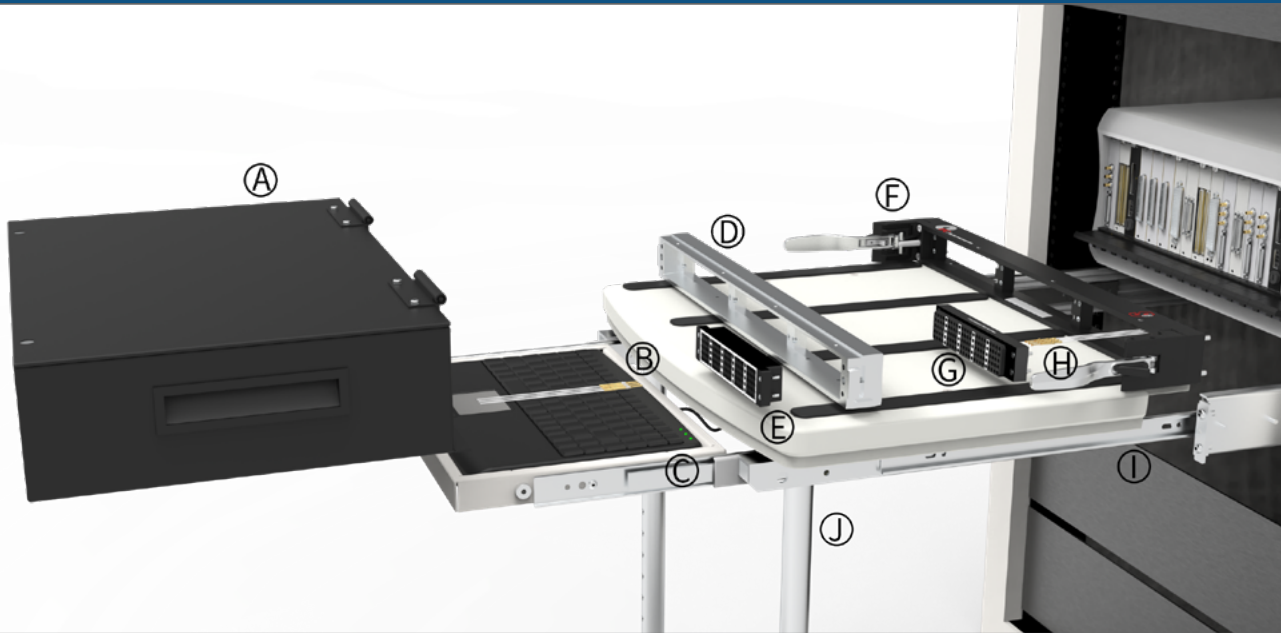
Features and Benefits

- Precision engagement mechanism engineered to mate over 1,400 signal points in a 1U height
- Standard ITA frames accommodate multiple enclosure types for a variety of fixture options
- Modular and reconfigurable for evolving test requirements
- Reliable connectivity beyond 20,000 cycles
- Quick and easy integration and maintenance
- Wide range of I/O options including signal, coaxial, power, pneumatic, vacuum, thermocouple, fiber optic, and PCB solutions
- Versatile platform for fixture support
- Slide mounted S6 and associated accessories offer easy access to cables and test instrumentation



Rack Mounted S6

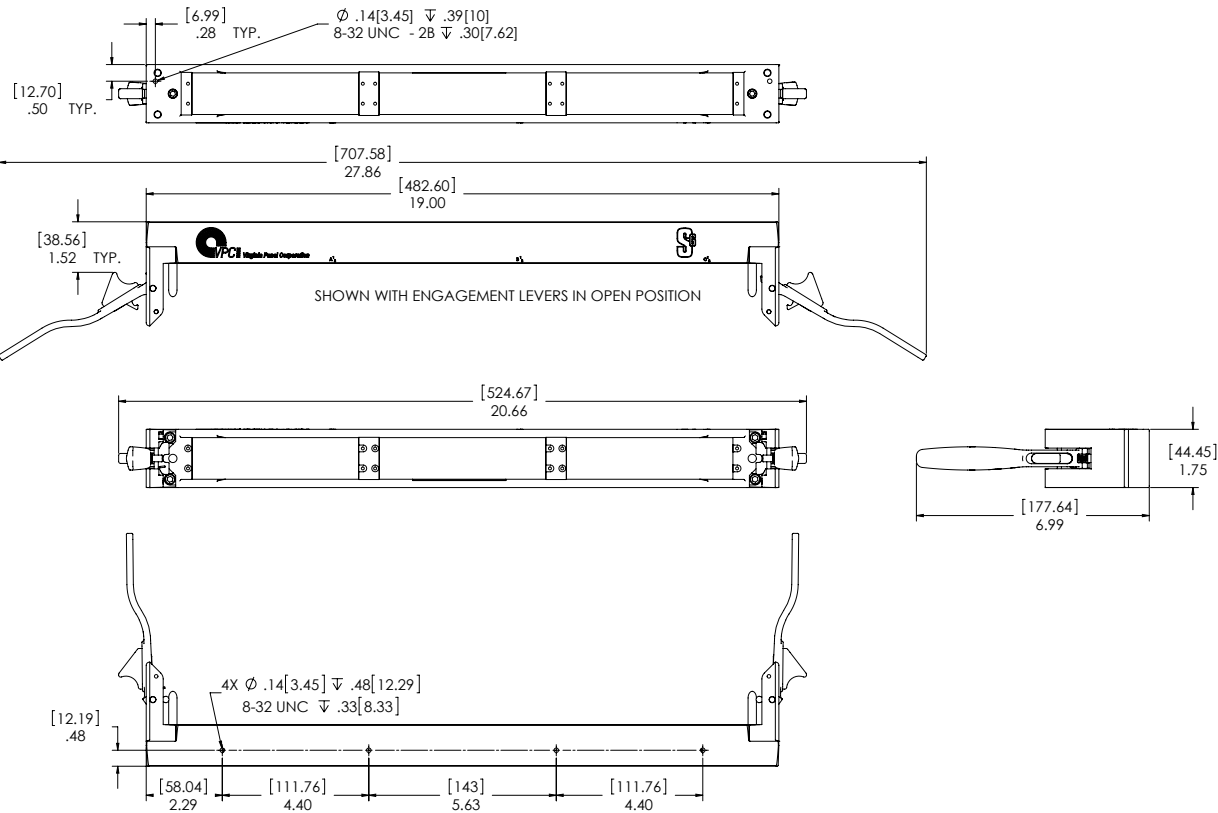
S6 Slide Configuration



- | | | |
|----------------------|------------------------|-----------------------|
| A. ITA Enclosure | E. ITA Module | I. Slide Kit |
| B. ITA Patchcords | F. Receiver Frame | J. Adjustable Leg Kit |
| C. Keyboard Tray Kit | G. Receiver Module | |
| D. ITA Frame | H. Receiver Patchcords | |

Part #	Description
RECEIVERS	
310 122 100	Receiver, S6, 6 Module
310 122 101	Receiver, S6, 6 Module with 15" Platform, for Slide Mount (slide kit required)
310 122 108	Receiver, S6, 6 Module with 20" Platform, for Slide Mount (slide kit required)
310 122 110	Receiver, S6, 6 Module with 15" Platform for Tabletop
310 122 111	Receiver, S6, 6 Module with 20" Platform for Tabletop
ITA	
410 122 100	ITA, S6, 6 Module, with Protective Cover
ENCLOSURES	
410 112 701	Enclosure, S6, 1.75" x 18" x 8"
410 112 703	Enclosure, S6, 4" x 18" x 12"
410 112 702	Enclosure, S6, 1.75" x 18" x 8" for Discrete Wiring
410 112 712	Enclosure, S6, 4" x 18" x 12" for Discrete Wiring
SLIDE KITS	
310 113 409	20" Slide Kit, Fits 18"-22" Deep Racks, Supports 180 lbs.
310 113 410	24" Slide Kit, Fits 22"-26" Deep Racks, Supports 180 lbs.
310 113 451	28" Slide Kit, Fits 26"-30" Deep Racks, Supports 180 lbs.
310 113 411	30" Slide Kit, Fits 28"-32" Deep Racks, Supports 180 lbs.
310 113 500	36" Slide Kit, Fits 34"-38" Deep Racks, Supports 180 lbs.
ACCESSORIES	
310 113 432	Protective Cover, S6, Receiver
410 112 700	Replacement Protective Cover, S6, ITA
310 113 430	Rack Extender Kit, S6, 4" Deep
310 113 424	Cable Tray, Slide Configuration, for Strain Relief and Cable Management, for 28" and longer slides only
310 113 439	Keyboard Tray Kit, Slide Configuration, Keyboard with Touchpad Mouse Included
310 113 453	Instrument Bracket Kit with Strain Relief, Slide Configuration, for 28" and longer slides only
310 113 566	Adjustable Leg Kit for the 20" Platform, 27"-36", Supports 350 lbs.

S6 Receiver • 6 Module Solution



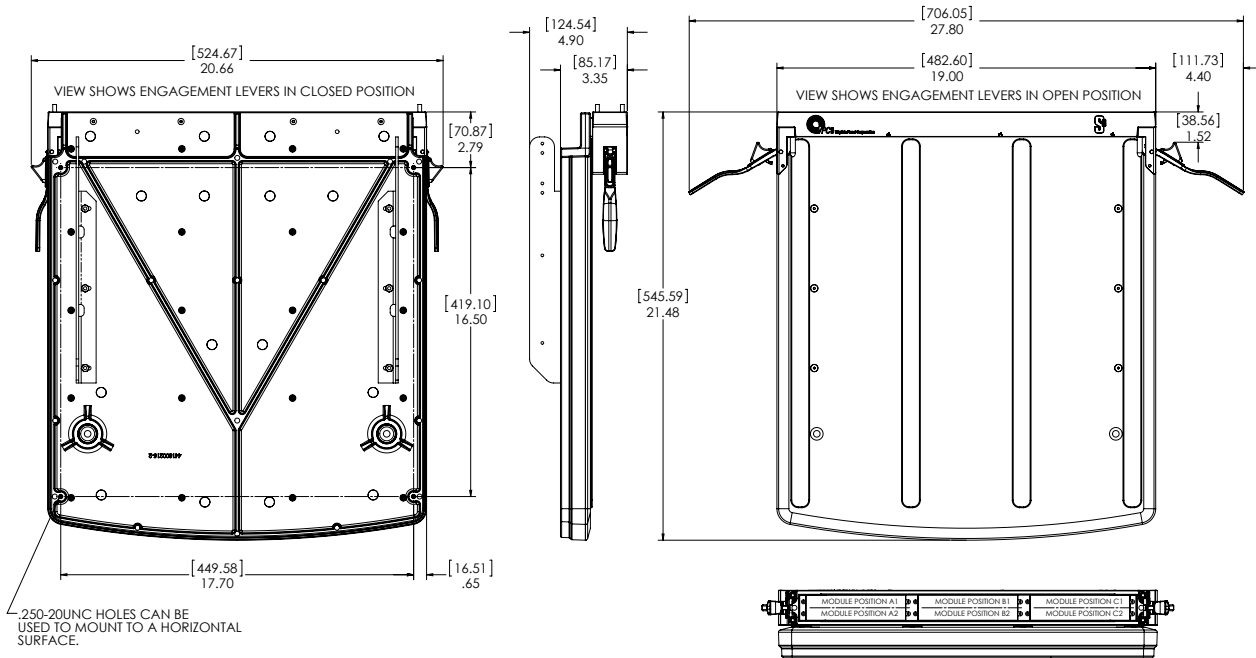
Receiver, S6, 6 Module • **Part # 310 122 100**



Receiver Specifications	
Weight	3.80 lbs [1.72 kg]
Rotation Block Material	Powder coated aluminum
Frame Material	Powder coated zinc alloy
Alignment Pin Material	Stainless steel
Handle Material	Nickel plated alloy steel
Available Module Slots	6 positions
Cycle Life	20,000 cycles
Temperature	-55° C to 85° C
Max. Weight Support	50 lbs @ 6" [22 kg @ 15.24 cm]

The S6 receiver is designed to mount to a rack or directly to a tabletop. The 1U high unit features positive-latching mechanisms and integrated guide pins to create a highly reliable engagement system. The S6 receiver is versatile and has module positions screened on the top for ease of module placement.

S6 Receiver for Slide Mount • 6 Module Solution



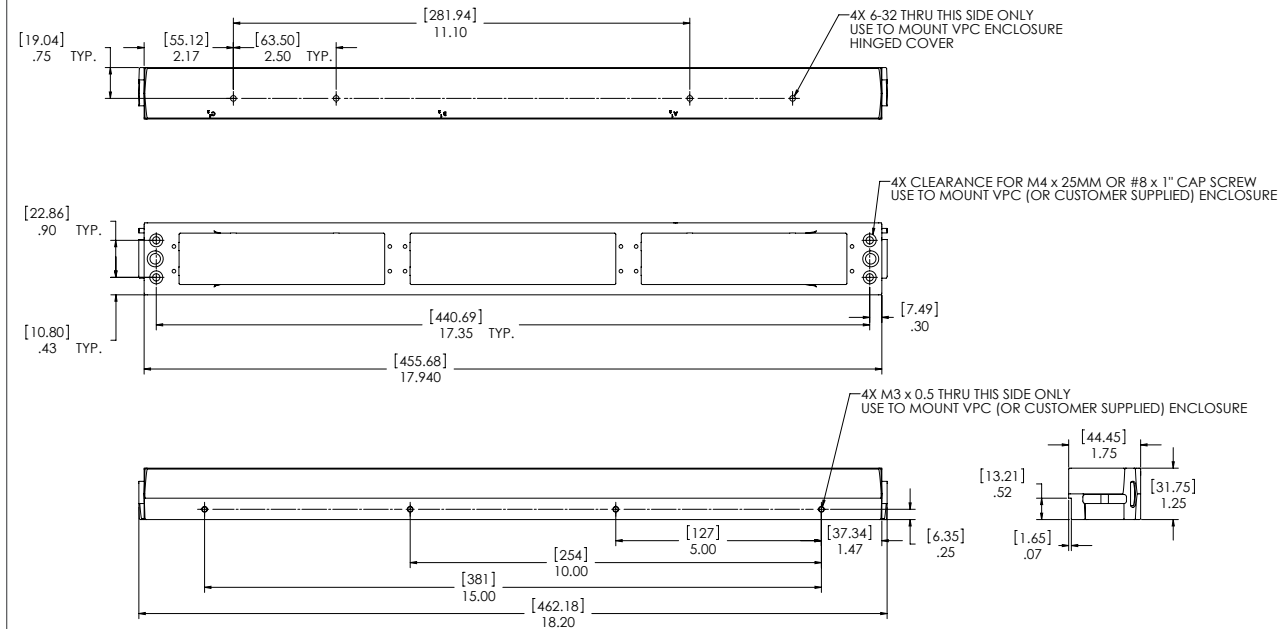
Receiver, S6, 6 Module with 20" Platform, for Slide Mount (slide kit required) • **Part # 310 122 108**

Receiver Specifications	
Weight	20.86 lbs [9.46 kg]
Rotation Block Material	Powder coated aluminum
Frame Material	Powder coated zinc alloy
Alignment Pin Material	Stainless steel
Handle Material	Nickel plated alloy steel
Available Module Slots	6 positions
Cycle Life	20,000 cycles
Temperature	-55° C to 85° C
Max. Mating Force	280 lbs [127.0 kg]



This S6 receiver is designed to mount to slides in a rack application. The 1U height unit features positive-latching mechanisms and integrated guide pins to create a highly reliable engagement system. The S6 receiver is very versatile and has module positions screened on top for ease of module placement. This S6 is also available in a 15" platform, Part # 310 122 101.

S6 ITA • 6 Module Solution



ITA, S6, 6 Module, with Protective Cover • Part # 410 122 100



ITA Specifications

Weight	2.6 lbs [1.18 kg]
Frame Material	Powder coated zinc alloy
Available Module Slots	6 positions
Cycle Life	20,000 cycles
Temperature	-55° C to 85° C
Max. Mating Force	280 lbs [127.0 kg]

The S6 ITA has a powder coated finish adding an extra layer protection against the elements. Additionally, this ITA has module positions screened on top for ease of module placement. A protective cover is included with the ITA.

S6 • Accessories



The 1U enclosure takes up little rack space and completes the S6's low profile solution.

Enclosure, S6, 1.75" x 18" x 8" Part # 410 112 701



The larger enclosure provides more space for wiring and other test system needs.

Enclosure, S6, 4" x 18" x 12" Part # 410 112 703



This enclosure gives you the ability to discrete wire to your UUT with secure strain relief provided by the cable clamps located on the back end. Once the cable clamps are open, you can remove the stiffener bar and install or remove cables without unplugging patchcords from the assembly.

Enclosure, S6, for Discrete Wiring, 1.75" x 18" x 8" Part # 410 112 702



The receiver protective cover protects your contacts and modules when the receiver is not in use.

Protective Cover, Receiver, S6 Part # 310 113 432



The vinyl ITA protective cover protects contacts and modules when the ITA is not in use.

Replacement Protective Cover, ITA, S6 Part # 410 112 700



The rack extender kit provide additional clearance for the engagement handles when using a rack that has mounting rails recessed more than 1" [25.4 mm] in a slide or rack mount configuration.

Rack Extender Kit, S6, 4" Deep Part # 310 113 430

G12 • 12 Module Solution

Available in rack mount, slide mount, and tabletop configurations, the G12 features an aluminum platform to accommodate in-circuit test and other functional bed-of-nails testing requirements. Integrated guide pins and proven QuadraTrack™ engagement mechanisms provide precise lead-in, while pin and socket modules and contacts ensure reliable connections for over 20,000 mating cycles. With 12 module positions for signal, coaxial, power, vacuum, pneumatic, thermocouple, and fiber optic contacts in multiple configurations, the G12 offers I/O options to meet virtually any connectivity requirement.

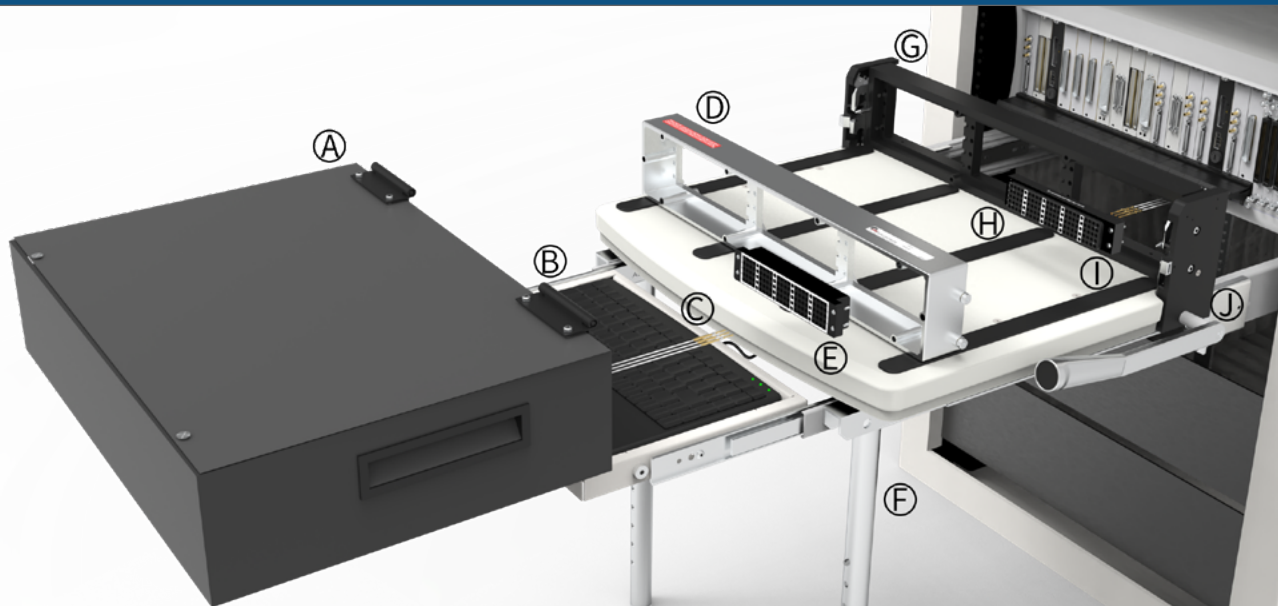
Features and Benefits

- Precision engagement mechanism engineered to mate over 2,800 contacts in a 3U height
- Standard ITA frames accommodate multiple enclosure types for a variety of fixture options
- Modular and reconfigurable for evolving test requirements
- Reliable connectivity beyond 20,000 cycles
- Quick and easy integration and maintenance
- Versatile platform for fixture support
- Slide mounted G12 and associated accessories offer easy access to cables and test instrumentation



G12 Receiver

G12 Slide Configuration



- A. ITA Enclosure

B. Keyboard Tray Kit

C. ITA Patchcords

D. ITA Frame
- E. ITA Module

F. Adjustable Leg Kit

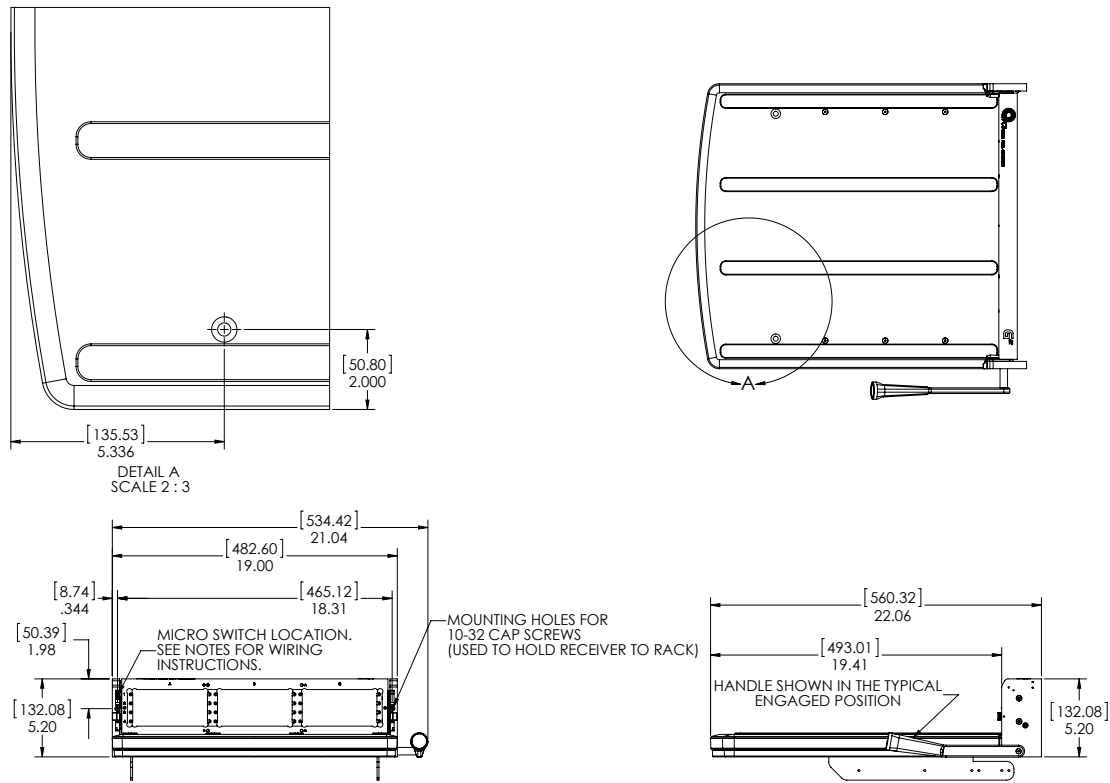
G. Receiver Frame

H. Receiver Module
- I. Receiver Patchcords

J. Slide Kit

Part #	Description
RECEIVERS	
310 104 325	Receiver, G12, 12 Module with 15" Platform, for Slide Mount (slide kit required)
310 104 334	Receiver, G12, 12 Module with 20" Platform, for Slide Mount (slide kit required)
310 104 408	Receiver, G12, 12 Module with 15" Platform for Tabletop
310 104 409	Receiver, G12, 12 Module with 20" Platform for Tabletop
ITA	
410 104 322	ITA, G12, Front Mount, 12 Module, with Protective Cover
ENCLOSURES	
410 112 665	Enclosure, G12, Front Mount, 4"x18"x12"
410 112 739	Enclosure, G12, Front Mount, 4"x18"x12", for Discrete Wiring
410 112 757	Enclosure, G12, Front Mount, 7"x18"x12"
410 114 002	Enclosure, G12, Front Mount, Sloped
410 114 101	Enclosure, G12, Front Mount, Sloped, G10 Cover
SLIDE KITS	
310 113 409	20" Slide Kit, Fits 18"-22" Deep Racks, Supports 180 lbs.
310 113 410	24" Slide Kit, Fits 22"-26" Deep Racks, Supports 180 lbs.
310 113 451	28" Slide Kit, Fits 26"-30" Deep Racks, Supports 180 lbs.
310 113 411	30" Slide Kit, Fits 28"-32" Deep Racks, Supports 180 lbs.
310 113 500	36" Slide Kit, Fits 34"-38" Deep Racks, Supports 180 lbs.
ACCESSORIES	
310 113 402	Protective Cover, G12, Receiver
410 112 681	Replacement Protective Cover, G12, ITA
410 114 010	Protective Cover, G12, ITA, Aluminum
410 114 133	Enclosure Accessory Kit, Gas Spring Loaded for Sloped Enclosures
310 113 406	Rack Extender Kit, G12, 1.5" Deep
310 113 424	Cable Tray, Slide Configuration, for Strain Relief and Cable Management, for 28" and longer slides only
310 113 433	Gap Cover, G12/G12x, Rack Mount
310 113 439	Keyboard Tray Kit, Slide Configuration, Keyboard with Touchpad Mouse Included
310 113 453	Instrument Bracket Kit with Strain Relief, Slide Configuration, for 28" and longer slides only
310 113 566	Adjustable Leg Kit for the 20" Platform, 27"-36", Supports 350 lbs.
310 118 112	Keying Pin Kit, Receiver/ITA

G12 Receiver for Slide Mount • 12 Module Solution



Receiver, G12, 12 Module with 20" Platform, for Slide Mount (slide kit required) • **Part # 310 104 334**

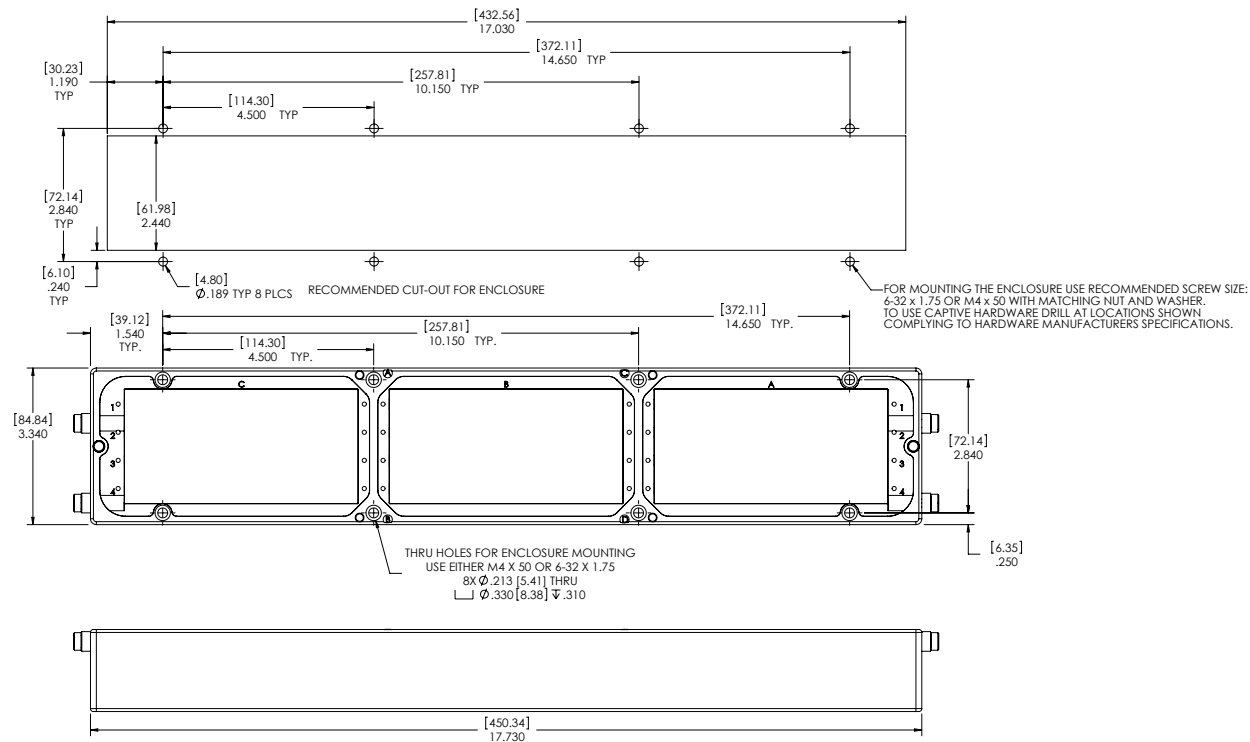
Receiver Specifications

Weight	26.21 lbs [11.88 kg]
Frame Material	Anodized and powder coated aluminum
Slide Material	Nickel plated steel
Linkage, Handle, Latch Material	Stainless steel
Available Module Slots	12 positions
Cycle Life	20,000 cycles
Temperature	-55° C to 85° C
Max. Weight Support	Without Leg Kit: 180 lbs [81.65 kg] With Leg Kit: 350 lbs [158.76 kg]
Max. Mating Force	620 lbs [281.2 kg]



The 20" G12 receiver provides a large platform for use with large fixtures. When used in conjunction with VPC slide mounts and support legs, the receiver can support 350 lbs. The G12 handle can be rotated in 90 degree increments. Also available in a 15" platform, Part # 310 104 325.

G12 ITA Front Mount • 12 Module Solution



ITA, G12, Front Mount, 12 Module, with Protective Cover • **Part # 410 104 322**

ITA Specifications

Weight	2.35 lbs [1.07 kg]
Frame Material	Chromated aluminum
Available Module Slots	12 positions
Cycle Life	20,000 cycles
Max. Mating Force	620 lbs [281.2 kg]
Temperature	-55° C to 85° C



This 12 module enclosure is made of powder coated aluminum. The top of the enclosure has a hinged cover plate with ¼-turn hardware that provides easy access to the ITA wiring when required.

The G12 ITA can be used with all G12 and G12x receivers. The ITA can be used in a number of applications to accomplish the required connection to the unit under test (UUT). You can mount a VPC enclosure or customize your own fixture to be attached to the ITA. A wide range of ITA modules are available separately for user configuration. A protective cover is included with the ITA.

G12x • 18 Module Solution

Available in slide mounted and tabletop configurations, the G12x features an aluminum platform to accommodate in-circuit test and other functional bed-of-nails testing requirements. Integrated guide pins and proven QuadraTrack™ engagement mechanisms provide precise lead-in, while pin and socket modules and contacts ensure reliable connections to over 20,000 mating cycles. With 18 module positions for signal, coaxial, power, vacuum, pneumatic, thermocouple, and fiber optic contacts in multiple configurations, the G12x offers I/O options to meet virtually any connectivity requirement.

Features and Benefits

- Precision engagement mechanism engineered to mate over 4,300 signal points in a 5U height
- Standard ITA frames accommodate multiple enclosure types for a variety of fixture options
- Modular and reconfigurable for evolving test requirements
- Reliable connectivity beyond 20,000 cycles
- Quick and easy integration and maintenance
- Versatile platform for fixture support
- Slide mounted G12x and associated accessories offer easy access to cables and test instrumentation

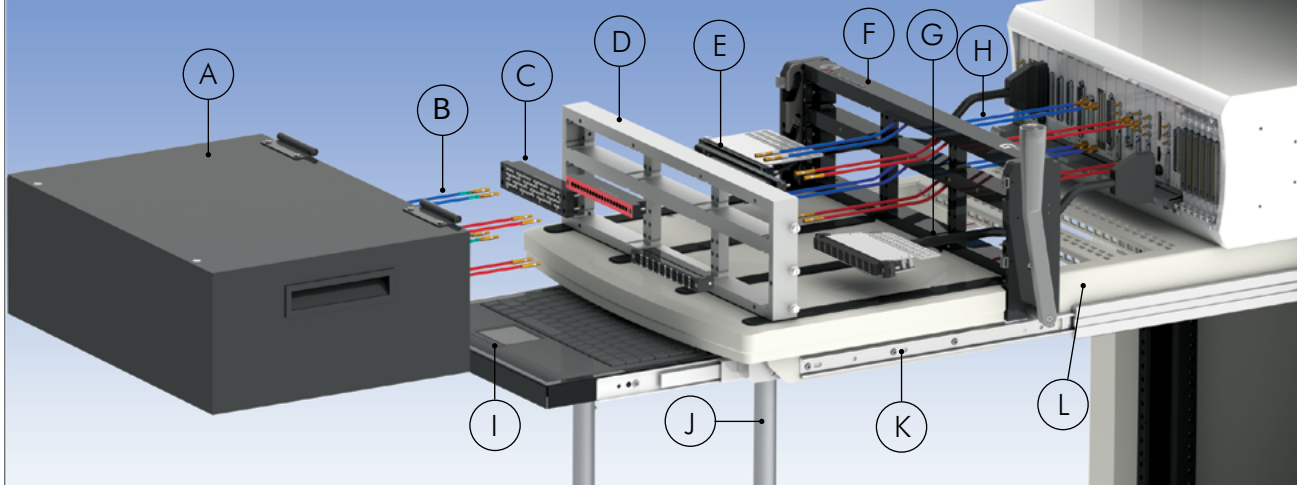


G12x Receiver



Slide Mounted G12x

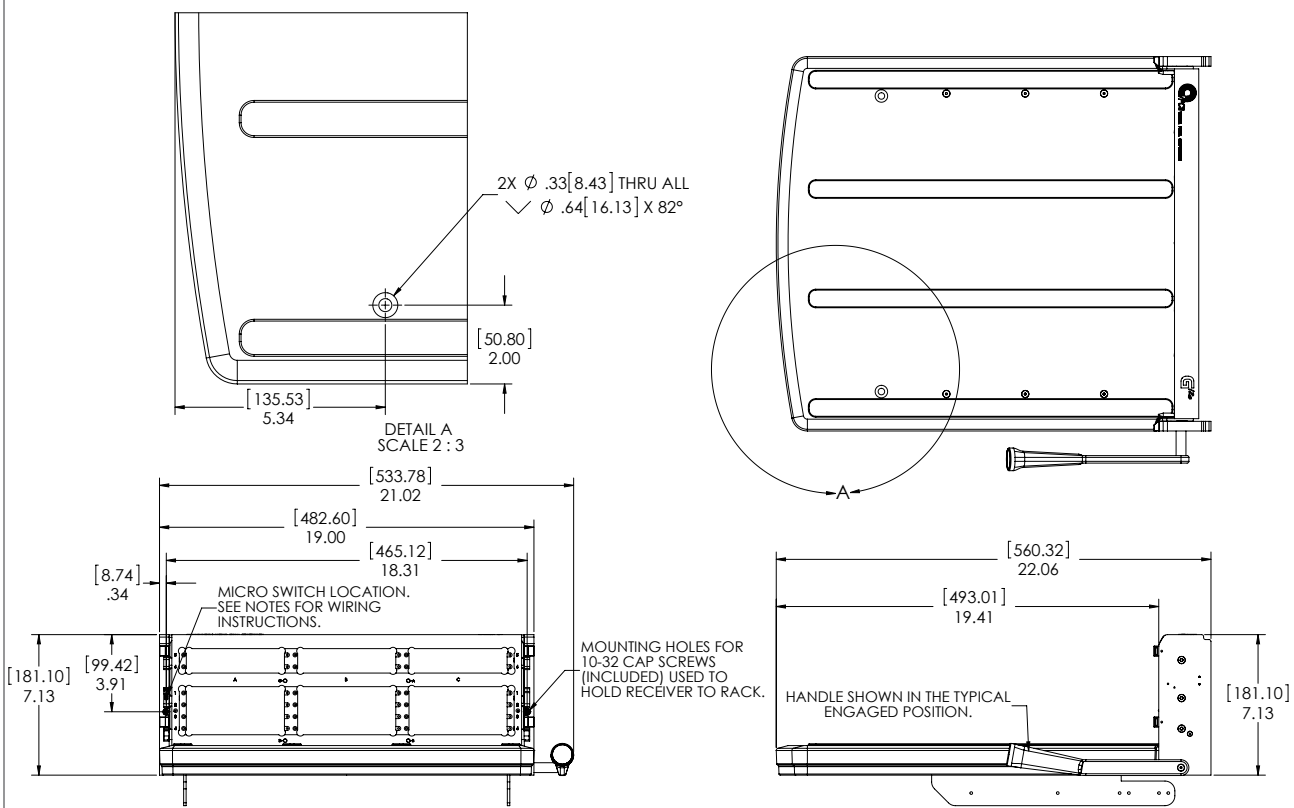
G12x Slide Configuration



- | | | |
|-------------------|-----------------------|------------------------|
| A. ITA Enclosure | E. ITA Frame | I. Receiver Patchcords |
| B. Keyboard Tray | F. Adjustable Leg Kit | J. Slide Kit |
| C. ITA Patchcords | G. Receiver Frame | |
| D. ITA Module | H. Receiver Module | |

Part #	Description
RECEIVERS	
310 104 386	Receiver, G12x, 18 Module with 15" Platform, for Slide Mount (slide kit required)
310 104 385	Receiver, G12x, 18 Module with 20" Platform, for Slide Mount (slide kit required)
310 104 410	Receiver, G12x, 18 Module with 15" Platform for Tabletop
310 104 411	Receiver, G12x, 18 Module with 20" Platform for Tabletop
ITA	
410 104 474	ITA, G12x, Front Mount, 18 Module
410 104 322	ITA, G12, Front Mount, 12 Module, with Protective Cover
ENCLOSURES	
410 112 849	Enclosure, G12x, Front Mount, 6"x18"x12"
410 112 856	Enclosure, G12x, Front Mount, 6"x18"x12", for Discrete Wiring
410 112 665	Enclosure, G12, Front Mount, 4"x18"x12"
410 112 739	Enclosure, G12, Front Mount, 4"x18"x12", for Discrete Wiring
410 112 757	Enclosure, G12, Front Mount, 7"x18"x12"
410 114 003	Enclosure, G12x, Front Mount, Sloped
410 114 102	Enclosure, G12x, Front Mount, Sloped, with G10 Cover
SLIDE KITS	
310 113 409	20" Slide Kit, Fits 18"-22" Deep Racks, Supports 180 lbs.
310 113 410	24" Slide Kit, Fits 22"-26" Deep Racks, Supports 180 lbs.
310 113 451	28" Slide Kit, Fits 26"-30" Deep Racks, Supports 180 lbs.
310 113 411	30" Slide Kit, Fits 28"-32" Deep Racks, Supports 180 lbs.
310 113 500	36" Slide Kit, Fits 34"-38" Deep Racks, Supports 180 lbs.
ACCESSORIES	
310 113 518	Protective Cover, G12x, Receiver
410 112 857	Protective Cover, G12x, ITA
410 114 133	Enclosure Accessory Kit, Gas Spring for Sloped Enclosures
310 113 433	Gap Cover, G12/G12x, Rack Mount
310 113 519	Rack Extender Kit, G12x, 1.5" Deep
310 113 424	Cable Tray, Slide Configuration, for Strain Relief and Cable Management, for 28" and longer slides only
310 113 453	Instrument Bracket Kit with Strain Relief, Slide Configuration, for 28" and longer slides only
310 113 566	Adjustable Leg Kit for the 20" Platform, 27"-36", Supports 350 lbs.
310 113 439	Keyboard Tray Kit, Slide Configuration, Keyboard with Touchpad Mouse Included
310 118 112	Keying Pin Kit, Receiver/ITA

G12x Receiver • 18 Module Solution



Receiver, G12x, 18 Module with 20" Platform, for Slide Mount (slide kit required) • **Part # 310 104 385**

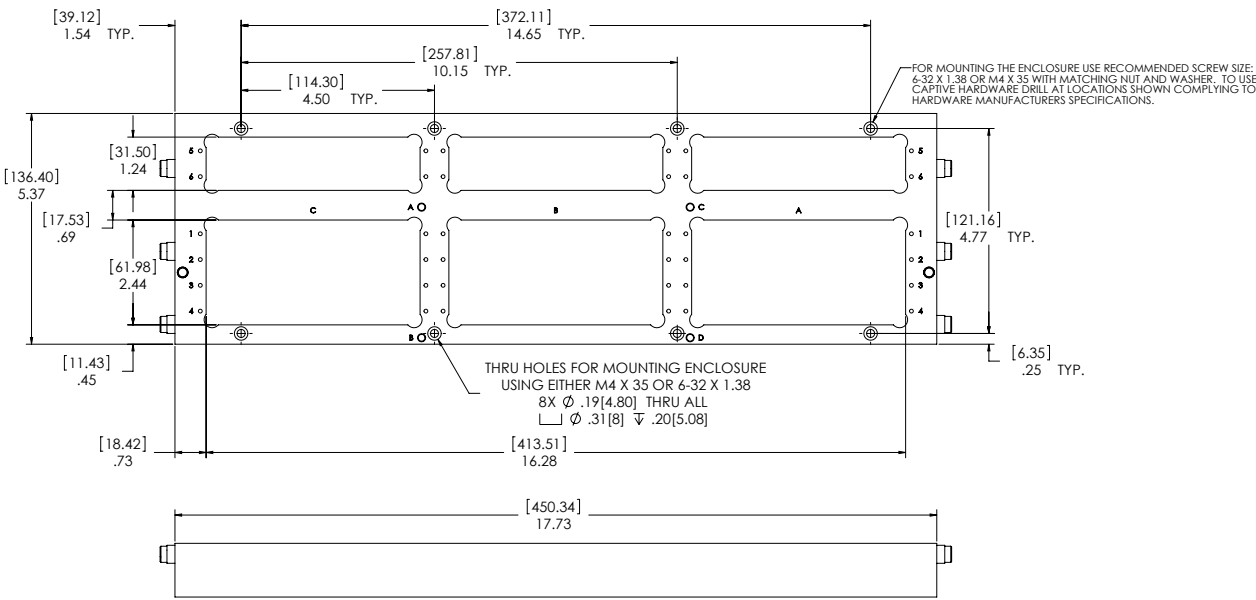
Receiver Specifications

Weight	27.98 lbs [12.69 kg]
Frame Material	Anodized and powder coated aluminum
Slide Material	Nickel plated steel
Linkage, Handle, Latch Material	Stainless steel
Available Module Slots	18 positions
Cycle Life	20,000 cycles
Temperature	-55° C to 85° C
Max. Weight Support	Without Leg Kit: 180 lbs [81.65 kg] With Leg Kit: 350 lbs [158.76 kg]
Max. Mating Force	890 lbs [403.7 kg]



The G12x receiver 20" platform will support 180 lbs when used in a slide mount configuration. The receiver is equipped with VPC's Quadratrack™ engagement system which provides four points of pull down for a reliable connection every time beyond 20,000 cycles. It can accept both the G12 and G12x ITAs. The G12x handle can be rotated in 90° increments. Also available in a 15" platform, Part # 310 104 386.

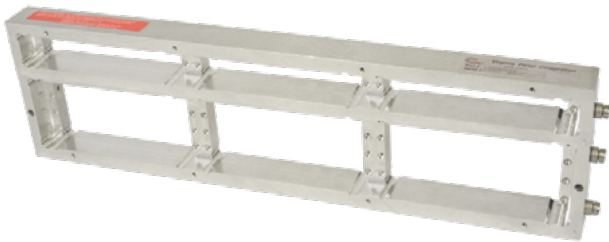
G12x ITA • 18 Module Solution



ITA, G12x, Front Mount, 18 Module • **Part # 410 104 474**

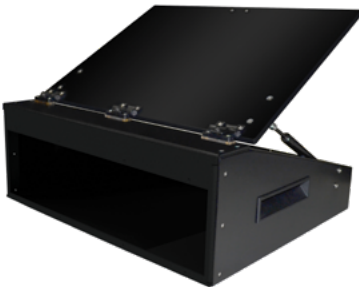
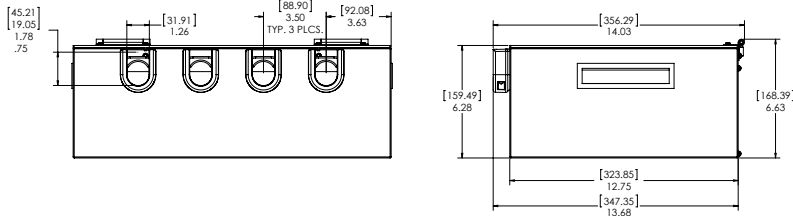
ITA Specifications

Weight	4.48 lbs [2.03 kg]
Frame Material	Chromated aluminum
Available Module Slots	18 positions
Cycle Life	20,000 cycles
Temperature	-55° C to 85° C
Max. Mating Force	890 lbs [403.7 kg]

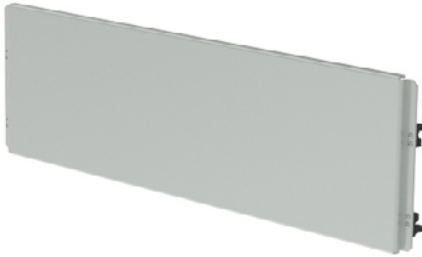
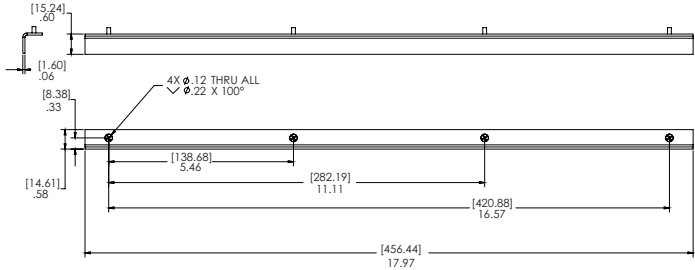


The G12x ITA can be used with all G12x receivers. The ITA can be used in a number of applications to accomplish the required connection to the unit under test (UUT). You can mount a VPC enclosure or customize your own fixture to be attached to the ITA. These are front mounted for ease of installation. A wide range of ITA modules are available separately for user configuration.

G12/G12x • Accessories

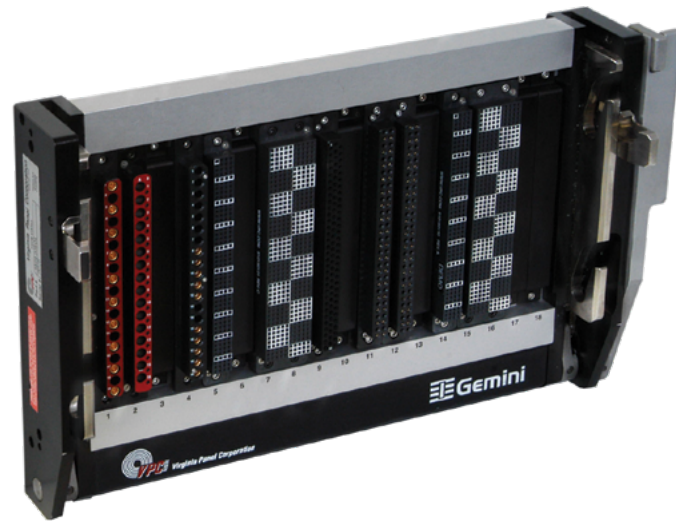
	
This G12 ITA aluminum enclosure (4" x 18" x 12") features a hinged cover plate with ¼ turn hardware and easy access to the ITA wiring.	The gap cover is used to cover the open area between the G12 or G12x receiver and rack. The gap cover is not needed when using rack extender kit, G12, Part # 310 113 406, or G12x, Part # 310 113 519.
Enclosure, G12, Front Mount Part # 410 112 665	Enclosure, G12x, Front Mount, Sloped Part # 410 114 003
	
This aluminum enclosure (6" x 18" x 12") features a hinged cover plate with ¼ turn hardware and provides easy access to the ITA wiring.	This 12 module enclosure is made of powder coated aluminum. The top of the enclosure has a hinged cover plate with ¼-turn hardware that provides easy access to the ITA wiring when required.
Enclosure, G12x, Front Mount Part # 410 112 849	Enclosure, G12, Front Mount, Sloped Part # 410 114 002
 	
This enclosure gives you the ability to discrete wire to your UUT with secure strain relief provided by the cable clamps located on the back end. Once the cable clamps are open, you can remove the stiffener bar and install or remove cables without unplugging patchcords from the assembly.	
Enclosure, ITA, G12x, 6"x18"x12", for Discrete Wiring • Part # 410 112 856	

G12/G12x • Accessories

	
The receiver protective cover protects contacts and modules when the receiver is not in use.	This aluminum ITA protective cover protects contacts and modules when the ITA is not in use.
Protective Cover, Receiver, G12x Part # 310 113 518	Protective Cover, ITA, G12x Part # 410 112 857
 	
The gap cover is used to cover the open area between the G12 or G12x receiver and rack. The gap cover is not needed when using rack extender kit, G12, Part # 310 113 406, or G12x, Part # 310 113 519.	
Gap Cover, G12/G12x, Slide Configuration • Part # 310 113 433	
	
This receiver protective cover protects contacts and modules when the receiver is not in use.	This ITA protective cover protects contacts and modules when the ITA is not in use.
Protective Cover, Receiver, G12 Part # 310 113 402	Replacement Protective Cover, ITA, G12 Part # 410 112 681

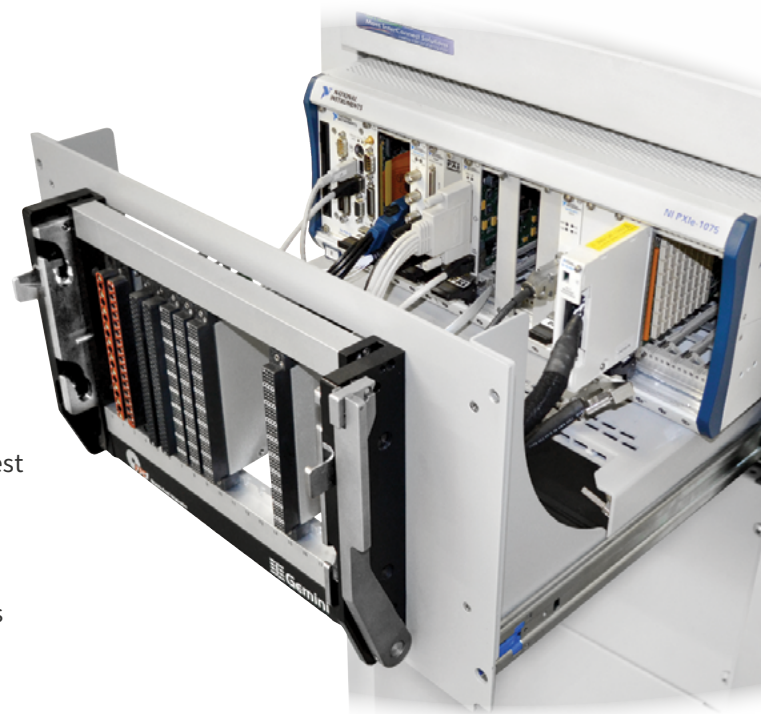
Uncover the Unique

G18



Versatile 18 Module Receiver

Ideal for PXI applications and can allow space for up to an 18 slot chassis
Ability to engage over 4,300 contacts in one motion with the locking handle



Slide Configuration

Flush rack mount to save valuable space in front of the test stand
Slides support up to 180 lbs to accommodate large fixtures
Easy access to instrumentation with shorter cable lengths
Multiple slide length options available
Kit contains G18 receiver, mounting plate, flanges, and instrument bracket

Standard QuadraTrack™

Engaging mechanism in the form of a pair of precision machined slides located in the receiver
Distributes uniform pressure to four points on the ITA during engagement and disengagement
Precise signal integrity between the receiver and ITA is maintained by QuadraTrack™ engagement system

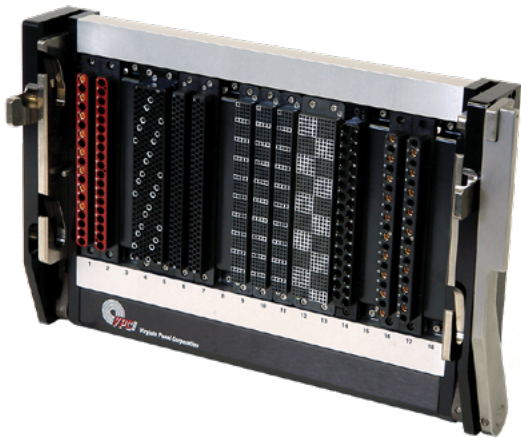


G18 • 18 Module Solution

The 18 Module system is the ideal InterConnect solution for an 18 slot PXI chassis. This high-density InterConnect can simultaneously engage over 4,300 signal contacts. The adaptable G18 integrates a wide variety of I/O options in various module configurations. The contacts are incorporated into cable assemblies for specific instruments. The Vertical Hinged Mounting Frame or slide mount configuration are suitable for rack or chassis mount applications and offer quick access to resources and cables.

Features and Benefits

- Precision engagement mechanism engineered to mate over 4,300 contacts
- Standard ITA frame accommodates multiple enclosure types for a variety of fixture options
- Modular and reconfigurable for evolving test requirements
- Reliable connectivity beyond 20,000 cycles
- Quick and easy integration and maintenance
- Wide range of I/O options including signal, coaxial, power, pneumatic, vacuum, thermocouple, fiber optic, and PCB solutions
- Mounting options include Vertical Hinged Mounting Frame and slide mount

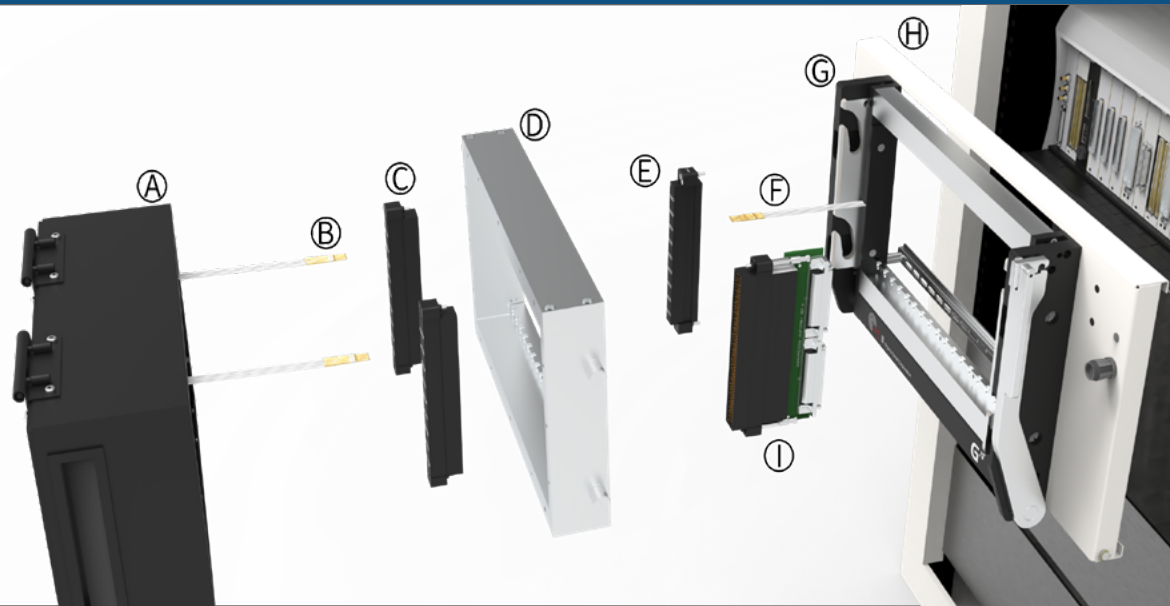


G18 Receiver



G18 Mounted to Vertical Hinged Mounting Frame

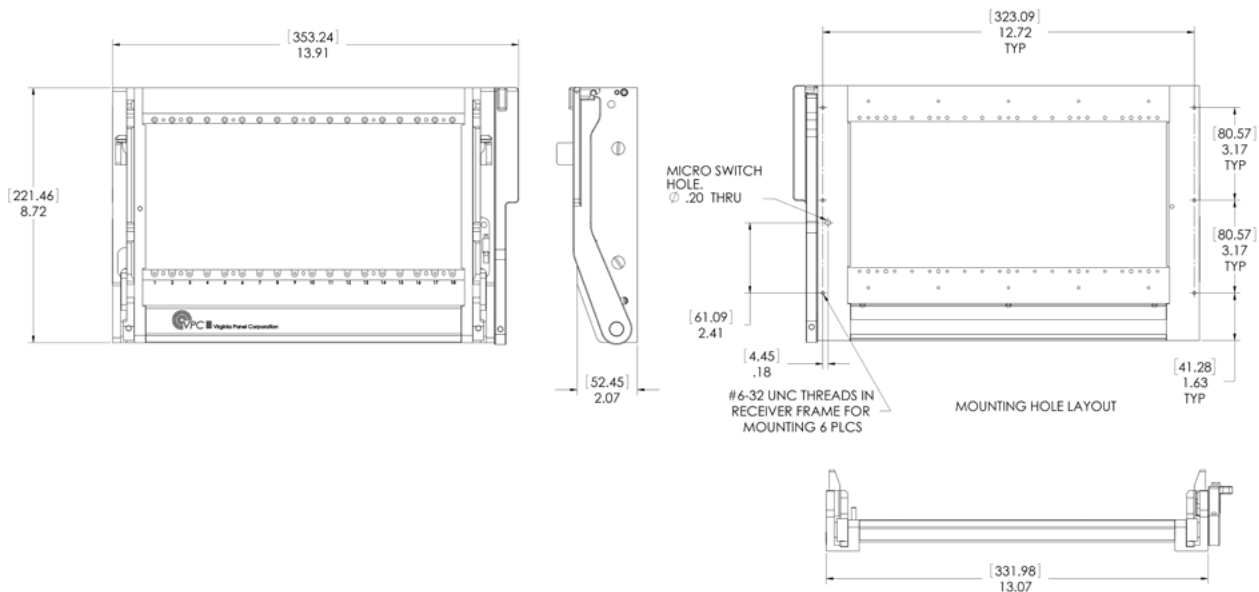
G18 Rack Mount Configuration



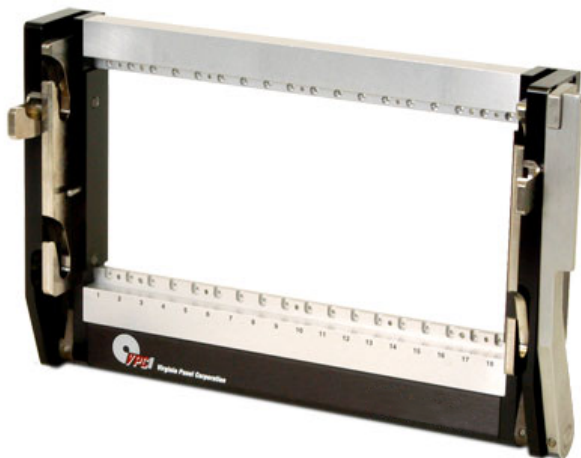
- | | | |
|-------------------|-----------------------------------|----------------|
| A. ITA Enclosure | E. Receiver Module | I. PCB Adapter |
| B. ITA Patchcords | F. Receiver Patchcords | |
| C. ITA Module | G. Receiver Frame | |
| D. ITA Frame | H. Vertical Hinged Mounting Frame | |

Part #	Description
RECEIVERS	
310 120 101	Receiver, G18, 18 Module for Discrete Wiring
310 120 102	Receiver, G18, 18 Module with Flush Hangers
310 120 141	Receiver, G18, 18 Module with Slide Mounting Kit (slide kit required)
310 120 161	Receiver, G18, 18 Module, EMI Gasket, with Slide Mounting (slide kit required)
310 120 168	Receiver, G18, 18 Module, EMI Gasket
ITAS	
410 120 111	ITA, G18, 18 Module
410 120 101	ITA, G18, 18 Module for Discrete Wire and PCB Capability
ENCLOSURES	
410 112 527	Enclosure, 18 Module, Hinged Cover Plate, 4" Deep
410 112 664	Enclosure, 18 Module with 3 Cable Clamps
SLIDE KITS	
310 113 451	28" Slide Kit, Fits 26"-30" Deep Racks, Supports 180 lbs.
310 113 411	30" Slide Kit, Fits 28"-32" Deep Racks, Supports 180 lbs.
310 113 500	36" Slide Kit, Fits 34"-38" Deep Racks, Supports 180 lbs.
MOUNTING FRAMES	
310 113 322	Vertical Hinged Mounting Frame, G18, 5U
310 113 328	Vertical Hinged Mounting Frame, G18, 9U
ACCESSORIES	
310 113 327	Protective Cover, G18, Receiver
410 112 541	Protective Cover, G18, ITA
310 113 542	Instrument Bracket Mounting Block Kit, for use with Pickering PXI Chassis
310 113 371	Chassis Mount Kit for Pickering 40-908, 40-914, 40-918
310 113 417	Chassis Mount Kit for National Instruments PXI-1044 and PXI-1045 Chassis
310 113 589	Chassis Mount Kit for Keysight M9018A Chassis

G18 Receiver for Discrete Wiring • 18 Module Solution



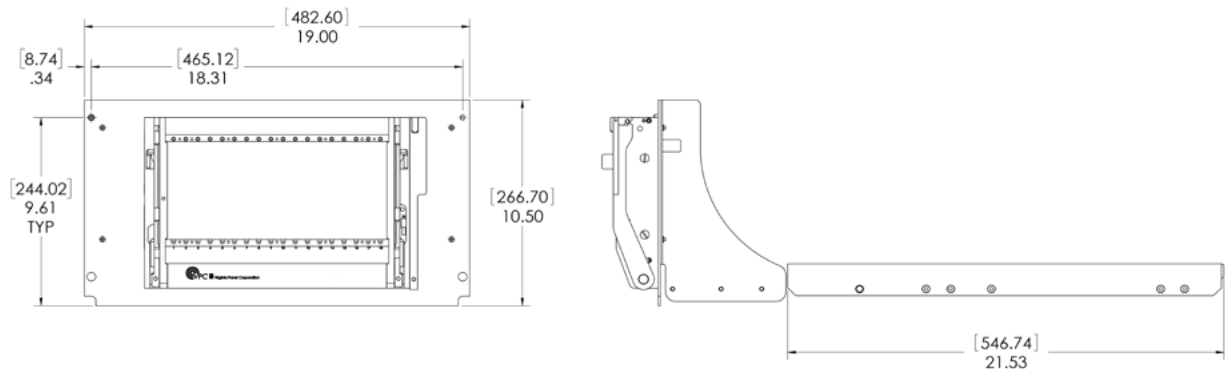
Receiver, G18, 18 Module for Discrete Wiring • Part # 310 120 101



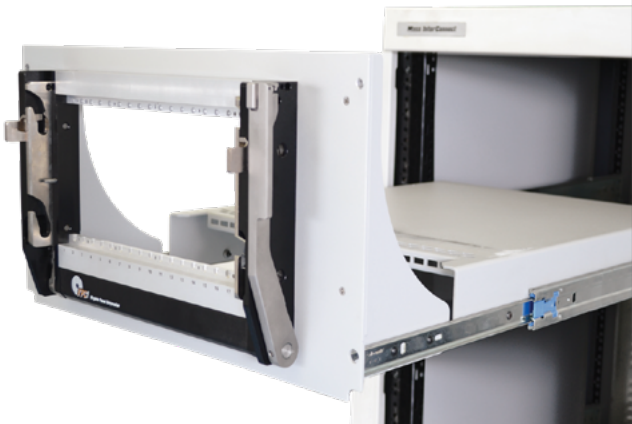
Receiver Specifications	
Weight	6.9 lbs [3.130 kg]
Frame Material	Anodized aluminum
Slide Material	Nickel plated steel
Linkage, Handle, Latch Material	Stainless steel
Available Module Slots	18 positions
Cycle Life	20,000 cycles
Temperature	-55° C to 85° C
Max. Weight Support	25 lbs @ 6" [11 kg @ 15.24 cm]
Max. Mating Force	942 lbs [427.3 kg]

The lightweight and rugged 18 module receiver provides a solution that will accommodate larger ATE chassis' (PXI, VXI, SCXI). It allows immense versatility by affording space up to an 18 slot PXI chassis.

G18 Receiver with Slide Mounting Kit • 18 Module Solution



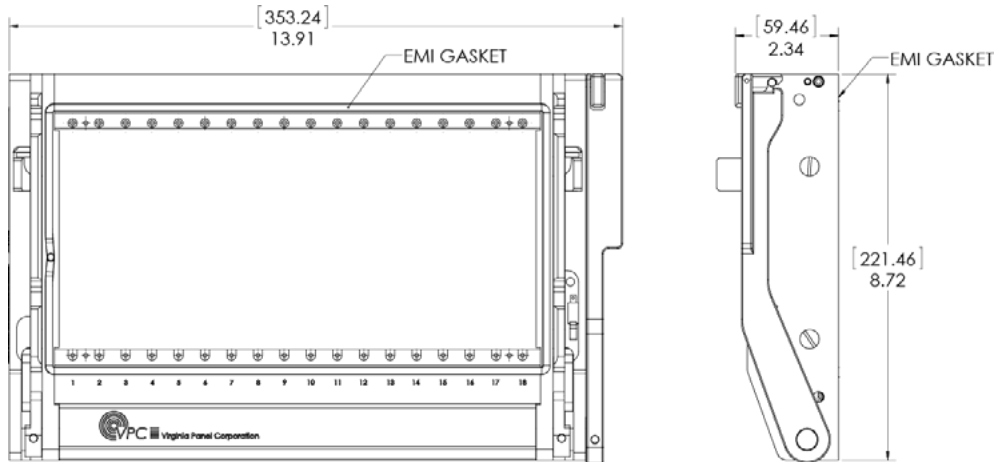
Receiver, G18, 18 Module, with Slide Mounting (slide kit required) • Part # 310 120 141



Receiver Specifications	
Weight	16.2 lbs [7.35 kg]
Frame Material	Anodized aluminum
Slide Material	Nickel plated steel
Linkage, Handle, Latch Material	Stainless steel
Mounting Plate, Mounting Flange, Instrument Bracket Material	Aluminum
Available Module Slots	18 positions
Cycle Life	20,000 cycles
Temperature	-55° C to 85° C
Max. Weight Support	25 lbs @ 6" [11 kg @ 15.24 cm]
Max. Mating Force	942 lbs [427.3 kg]

This G18 receiver is designed to work with a slide kit and includes a mounting bracket, flanges, and instrument bracket. A slide kit is required for use.

G18 Receiver with EMI Gasket • 18 Module Solution



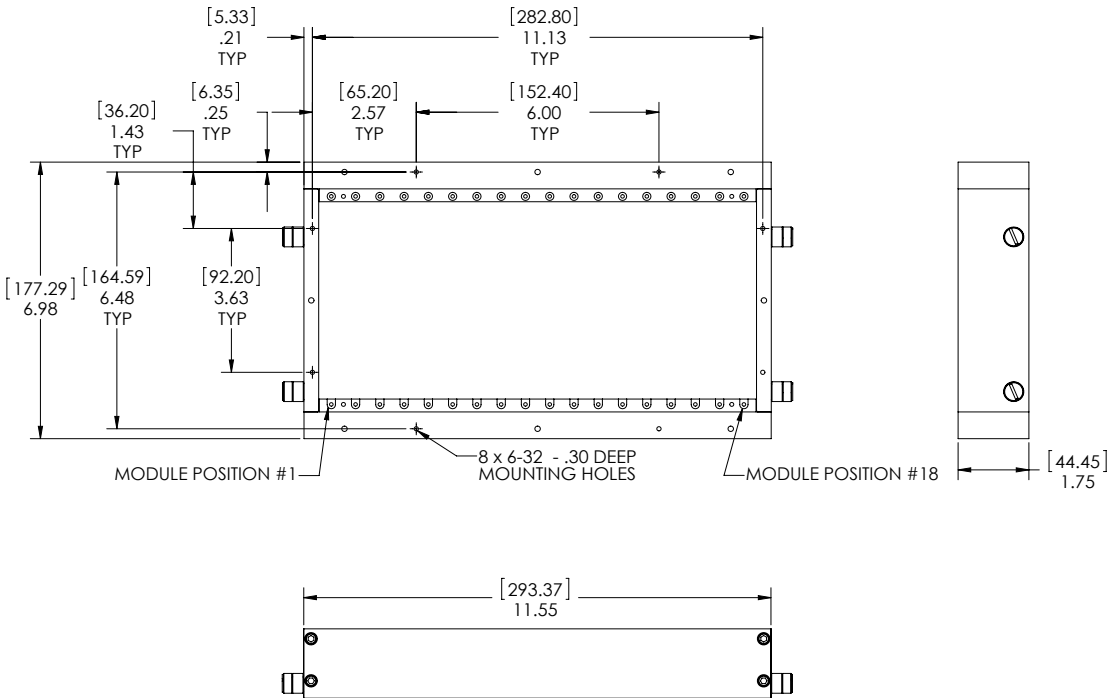
Receiver, G18, 18 Module, EMI Gasket • Part # 310 120 168



Receiver Specifications	
Weight	6.9 lbs [3.130 kg]
Frame Material	Anodized and clear chromated aluminum
Slide Material	Nickel plated steel
Linkage, Handle, Latch Material	Stainless steel
Available Module Slots	18 positions
Cycle Life	20,000 cycles
Temperature	-55° C to 85° C
Max. Weight Support	25 lbs @ 6" [11 kg @ 15.24 cm]
Max. Mating Force	942 lbs [427.3 kg]

This G18 receiver comes with a pre-installed gasket for EMI applications while maintaining all the features and benefits of the standard G18 receiver.

G18 ITA • 18 Module Solution



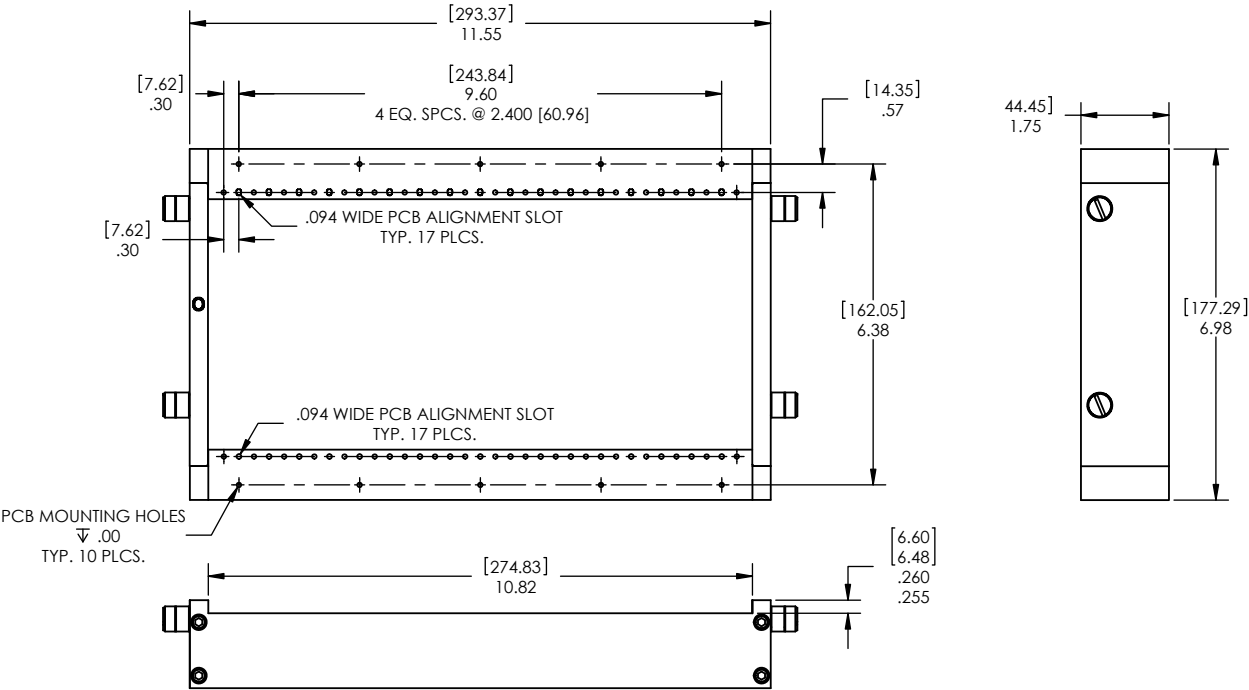
ITA, G18, 18 Module • Part # 410 120 111

ITA Specifications	
Weight	3.28 lbs [1.49 kg]
Frame Material	Chromated aluminum
Available Module Slots	18 positions
Cycle Life	20,000 cycles
Max. Mating Force	942 lbs [427.3 kg]
Temperature	-55° C to 85° C



You can mount a VPC enclosure or customize your own fixture to be attached to this ITA frame. A wide range of ITA modules are available separately for user configuration. This solution is perfect for any medium to high I/O application. The rugged aluminum frame provides secure mounting options for custom fixtures.

G18 ITA with PCB Capability • 18 Module Solution



ITA, G18, 18 Module for Discrete Wire and PCB Capability • **Part # 410 120 101**

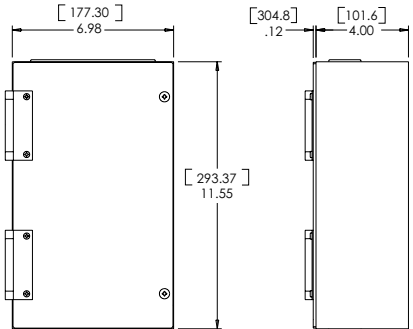
ITA Specifications

Weight	3.35 lbs [1.497 kg]
Frame Material	Aluminum
Available Module Slots	18 positions
Cycle Life	20,000 cycles
Temperature	-55° C to 85° C



The G18 ITA with PCB capability has a recess on the wiring side of the ITA to provide a location for PCB cards to mount.

G18 • Accessories



Made of aluminum, the enclosure body is painted gray and features a hinged cover plate with ¼ turn hardware that provides easy access to the ITA's wiring. The enclosure is secured to the ITA by eight socket head cap screws.

Enclosure, 18 Module, Hinged Cover Plate, 4" Deep • **Part # 410 112 527**



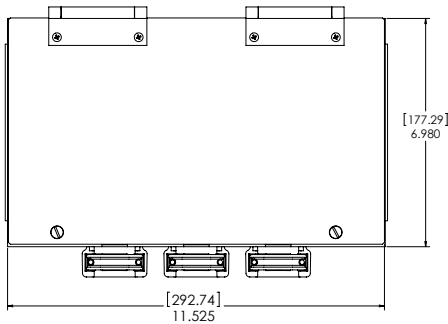
This receiver protective cover protects contacts and modules when the receiver is not in use.

Protective Cover, G18, Receiver
Part # 310 113 327



This aluminum ITA protective cover protects contacts and modules when the ITA is not in use.

Protective Cover, G18, ITA
Part # 410 112 541



This aluminum enclosure is for ITA Part # 410 120 111 and allows your 18 module solution to be customized to your needs. This enclosure has three U-shaped cable clamps that allow a maximum cable bundle of 1.59" square per clamp. ITA strain relief plates are not needed.

Enclosure, 18 Module with 3 Cable Clamps • **Part # 410 112 664**

Pull-Thru Solutions

G20, G20x, & G40x

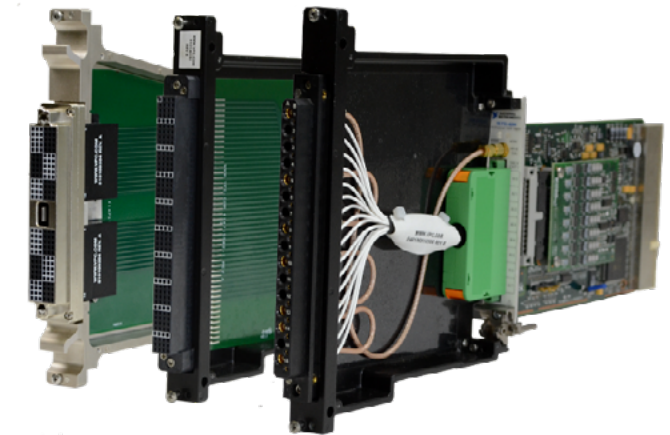


Modular and Configurable

- Direct connection to instrument modules
- Pull through removal of instrumentation from the chassis backplane
- Accepts all standard 90 Series modules and i2 MX
- Reversible handle for right or left mounting

Pull-Thru Adapters

- Variety of module configurations
- Multiple I/O options
- Instrument card protection
- i2 MX and high speed capability (VTAC)

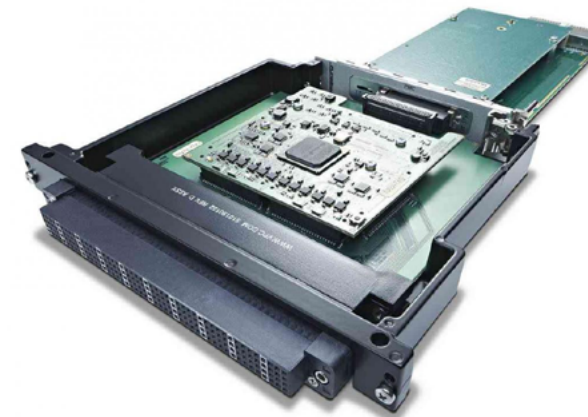


Scalability with i2 MX



- Connect directly to individual Pull-Thru Adapters with the i2 MX
- Convenient pull finger tabs allow easy removal of adapters
- Specially designed for EMI protection with nickel plated aluminium and an EMI gasket

Features and Benefits



- Adapters correspond with .8" PXI system slot requirements
- PCB adapter and instrument cards can be removed simultaneously
- Multiple configurations and I/O options

Large Scale Options

G40x is a two tier, 48 module system that enables pull through removal of 40 VPC modules, Pull-Thru Adapters and test instrumentation as one piece. It also offers eight additional 90 Series module slots, plus space for two iCon modules, as needed.

G40x



Platform Options

G20 and G20x are also available in a platform version. The platform provides support for your ITA and enclosure of up to 180 lbs [81.65 kg]. With the optional leg kit, up to 350 lbs [158.76 kg] can be supported.



G20 • Pull-Thru • 20 Module Solution

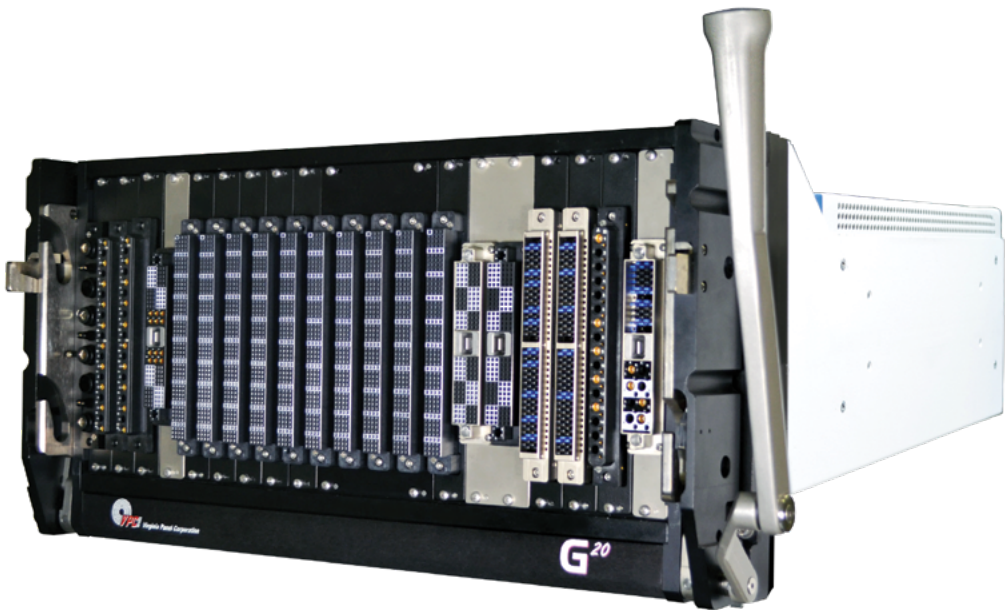
The G20 Pull-Thru is a scalable solution that enables pull through capability for PCB applications. The G20 Pull-Thru integrates a wide variety of I/O in various module configurations. In addition to rack mounting, it is also available in a slide mount configuration.

Features and Benefits

- Screw mount locations correspond to the .80" centers of a PXI chassis, providing a 1:1 interface system
- Accepts all standard 90 Series modules and i2 MX
- Allows direct connection to instrument modules
- Enables pull through removal of connector modules and instrumentation from chassis backplane
- Precision engagement mechanism engineered to mate over 2,000 signal points in 6U height
- Modular and configurable
- Reversible handle for right or left mounting

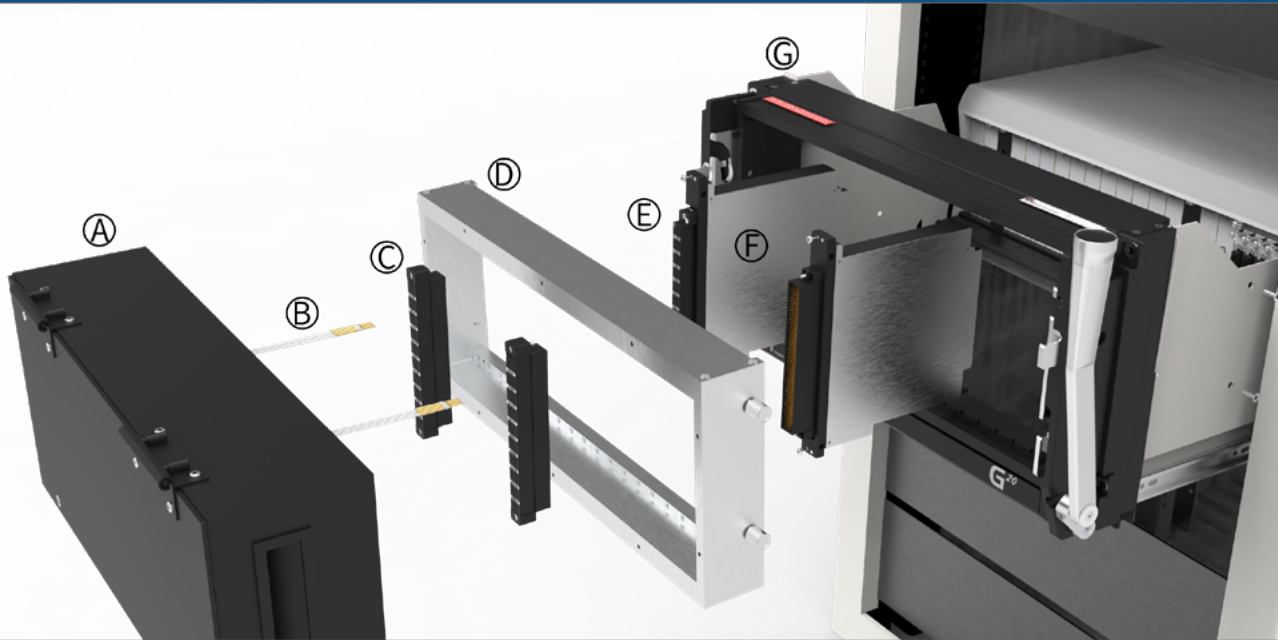


G20 Receiver



G20 Receiver Mounted to Chassis

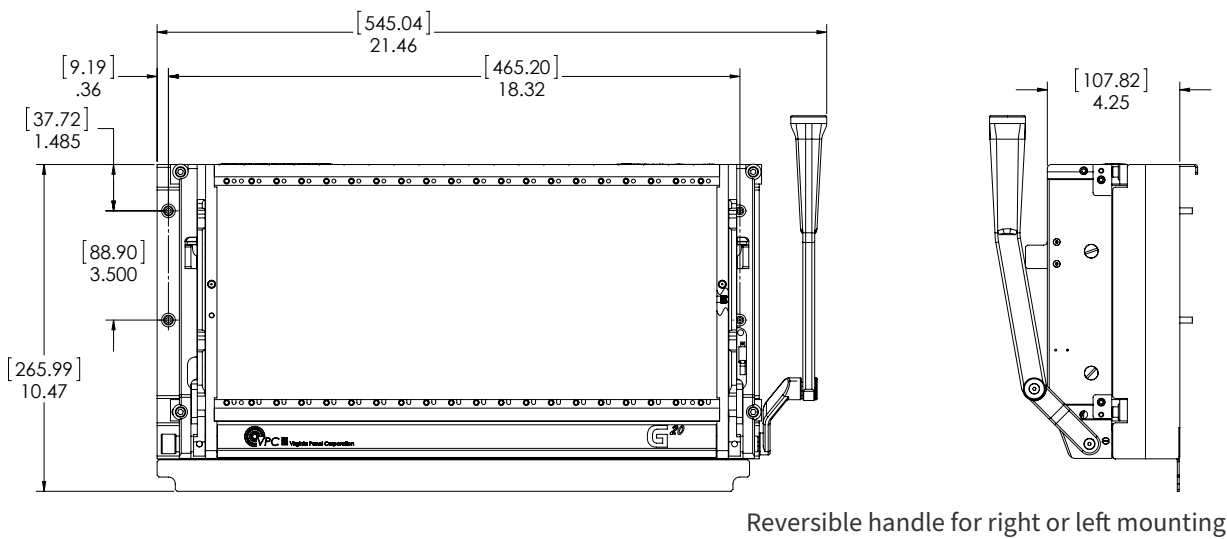
G20 Pull-Thru Slide Mount Configuration



- | | | |
|-------------------|----------------------------|-----------------|
| A. ITA Enclosure | D. ITA Frame | G. G20 Receiver |
| B. ITA Patchcords | E. Receiver Module | |
| C. ITA Module | F. Receiver Module Carrier | |

Part #	Description
RECEIVERS	
310 120 188	Receiver, G20, 20 Module, Pull-Thru
ITAS	
410 120 199	ITA, G20, 20 Module, Pull-Thru
MOUNTING FLANGES	
310 113 622	Mounting Flange Kit, G20/G20x Slide Mount, Pull-Thru, for NI PXI-1045 & PXI-1085 Chassis
310 113 760	Mounting Flange Kit, G20/G20x Slide Mount, 6.75" Series Adapters, for NI PXI-1095 Chassis and NI PXIe-1084 Chassis Pull-Thru
310113774	Mounting Flange Kit, G20 Slidde Mount, for NI PXI-1088
ENCLOSURES	
410 112 790	Enclosure, 20 Module, Hinged Cover Plate, 4" Deep
410 114 143	Enclosure, 20 Module, Hinged Cover Plate, 12" Deep
SLIDE KITS	
310 113 409	20" Slide Kit, Fits 18"-22" Deep Racks, Supports 180lbs.
310 113 410	24" Slide Kit, Fits 22"-26" Deep Racks, Supports 180lbs.
310 113 451	28" Slide Kit, Fits 26"-30" Deep Racks, Supports 180lbs.
310 113 411	30" Slide Kit, Fits 28"-32" Deep Racks, Supports 180lbs.
310 113 500	36" Slide Kit, Fits 34"-38" Deep Racks, Supports 180lbs.
PROTECTIVE COVERS	
310 113 422	Protective Cover, G20, Receiver, Pull-Thru
410 112 797	Protective Cover, G20, ITA, Pull-Thru
ADAPTERS	
510 109 461	PXI Pull-Thru Adapter, Single Slot, 1 Module Position
510 109 462	PXI Module Adapter, Single Slot, 1 Module Position

G20 Receiver • Pull-Thru • 20 Module Solution



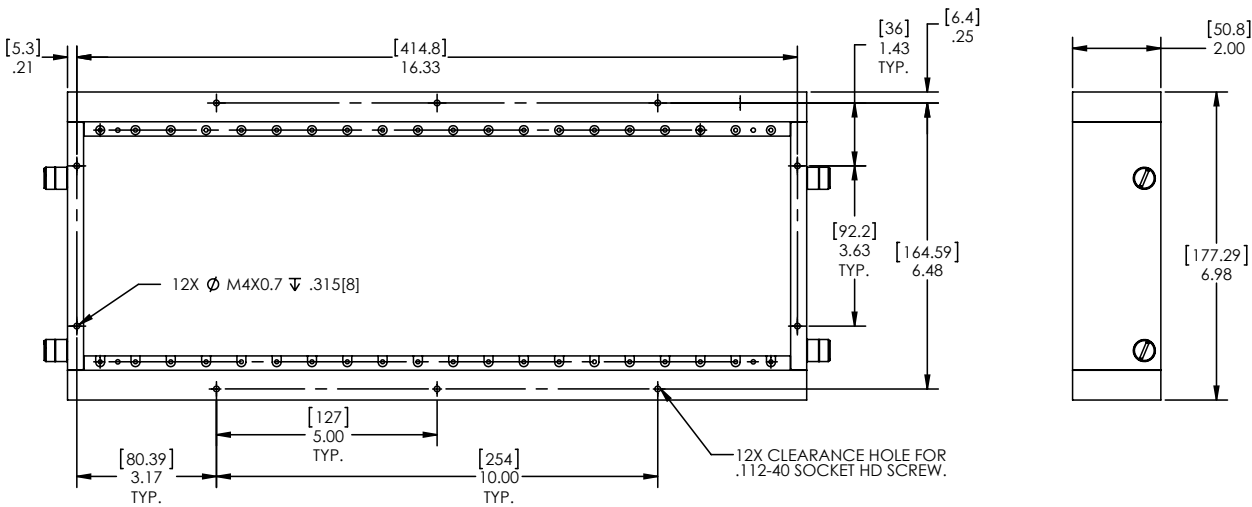
Receiver, G20, 20 Module, Pull-Thru • **Part # 310 120 188**

Receiver Specifications	
Frame Material	Anodized aluminum
Slide Material	Nickel plated steel
Linkage, Handle, Latch Material	Stainless steel
Available Module Slots	20 positions
Cycle Life	20,000 cycles
Temperature	-55° C to 85° C
Max. Weight Support	80 lbs @ 12" [36 kg @ 30.5 cm]
Max. Mating Force	1257 lbs [570.2 kg]



The G20 Pull-Thru receiver offers direct connection to instrument modules, enabling pull through removal of connector modules and instrumentation from the chassis backplane.

G20 ITA • Pull-Thru • 20 Module Solution



ITA, G20, 20 Module, Pull-Thru • **Part # 410 120 199**

ITA Specifications	
Frame Material	Chromated aluminum
Available Module Slots	20 positions
Cycle Life	20,000 cycles
Temperature	-55° C to 85° C
Max. Mating Force	1257 lbs [570.2 kg]



This G20 Pull-Thru ITA is intended to be used with the G20 receiver Part # 310 120 188. It is designed to front mount to the enclosure for ease of installation. A wide range of ITA modules are available separately for user configuration.

G20x • Pull-Thru • 28 Module Solution

The G20x Pull-Thru enables pull through capability for PCB applications with a capacity of up to 28 modules, eight dedicated to discrete wiring in an extended tier for higher I/O needs. The adaptable G20x Pull-Thru integrates a wide variety of I/O options in various module configurations to meet the needs of each test application. In addition to rack mounting, it is also available in a slide mount configuration.

Features and Benefits

- Screw mount locations correspond to the .80" centers of a PXI chassis, providing a 1:1 interface system
- 20 vertical modules with eight horizontal modules combine for 28 module capacity
- Accepts all standard 90 Series and iCon modules (with adapter) as well as i2 MX
- Enables pull through removal of connector modules and instrumentation from chassis backplane
- Precision engagement mechanism engineered to mate over 7,000 signal points in 7U height
- Modular and configurable
- Easy access to cables and test instrumentation
- Reversible handle for right or left mounting

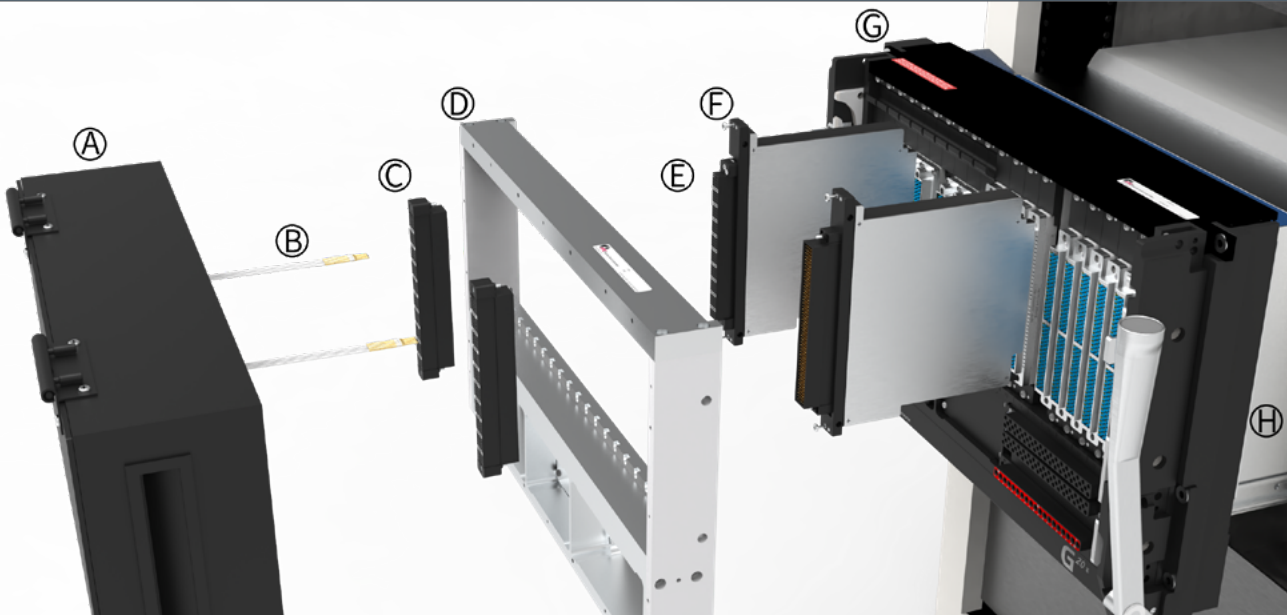


G20x Receiver



G20x Receiver Mounted to Chassis

G20x - 28 Module Pull-Thru Slide Mount Configuration



- A. ITA Enclosure

B. ITA Patchcords

C. ITA Module

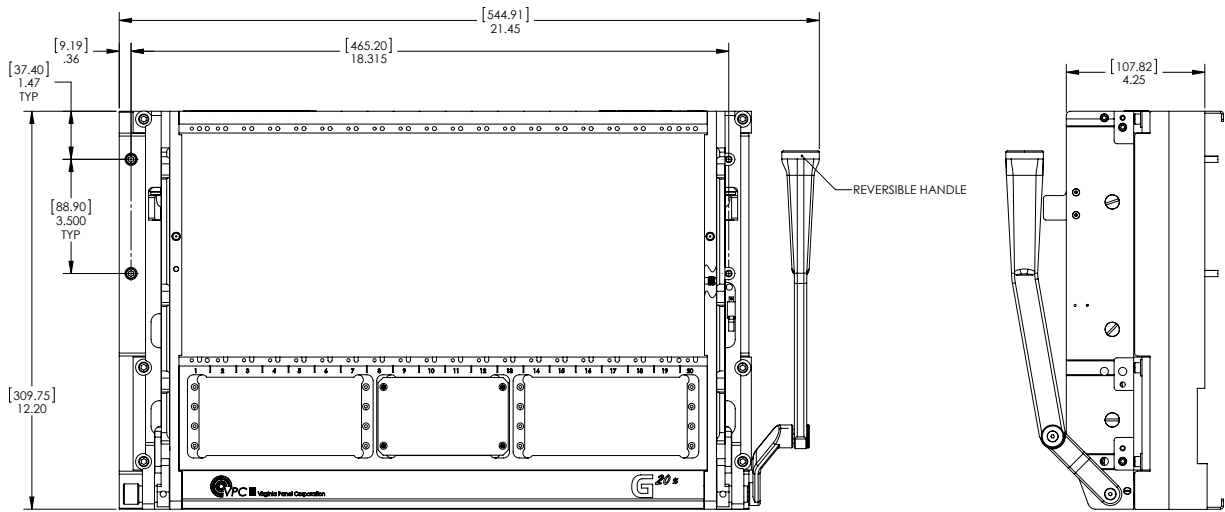
D. ITA Frame
- E. Receiver Module

F. Receiver Module Carrier

G. Receiver Frame

Part #	Description
RECEIVER	
310 120 186	Receiver, G20x, 28 Module, Pull-Thru
ITA	
410 120 210	ITA, G20x, 28 Module, Pull-Thru
410 120 199	ITA, G20, 20 Module, Pull-Thru
MOUNTING FLANGE	
310 113 622	Mounting Flange Kit, G20/G20x Slide Mount, Pull-Thru, for NI PXI-1045 Chassis
310 113 760	Mounting Flange Kit, G20/G20x Slide Mount, 6.75" Series Adapters, for NI PXI-1095 Chassis and NI PXIe-1084 Chassis
ENCLOSURE	
410 112 984	Enclosure, 28 Module, Hinged Cover Plate, 8" Deep
SLIDE KIT	
310 113 409	20" Slide Kit, Fits 18"-22" Deep Racks, Supports 180lbs.
310 113 410	24" Slide Kit, Fits 22"-26" Deep Racks, Supports 180lbs
310 113 451	28" Slide Kit, Fits 26"-30" Deep Racks, Supports 180lbs
310 113 411	30" Slide Kit, Fits 28"-32" Deep Racks, Supports 180lbs
310 113 500	36" Slide Kit, Fits 34"-38" Deep Racks, Supports 180lbs
ACCESSORIES	
310 113 597	Protective Cover, G20x, Receiver, Pull-Thru
410 112 986	Protective Cover, G20x, ITA, Pull-Thru
310 113 606	Adapter Plate, Pull-Thru, Allows G20x & G40x Receiver to Accept iCon Modules
410 112 996	Adapter Plate, Pull-Thru, Allows G20x ITA to Accept iCon Modules
ADAPTERS	
510 109 461	PXI Pull-Thru Adapter, Single Slot, 1 Module Position
510 109 462	PXI Module Adapter, Single Slot, 1 Module Position

G20x Receiver • Pull-Thru • 28 Module Solution



Reversible handle for right or left mounting

Receiver, G20x, 28 Module, Pull-Thru • Part # 310 120 186

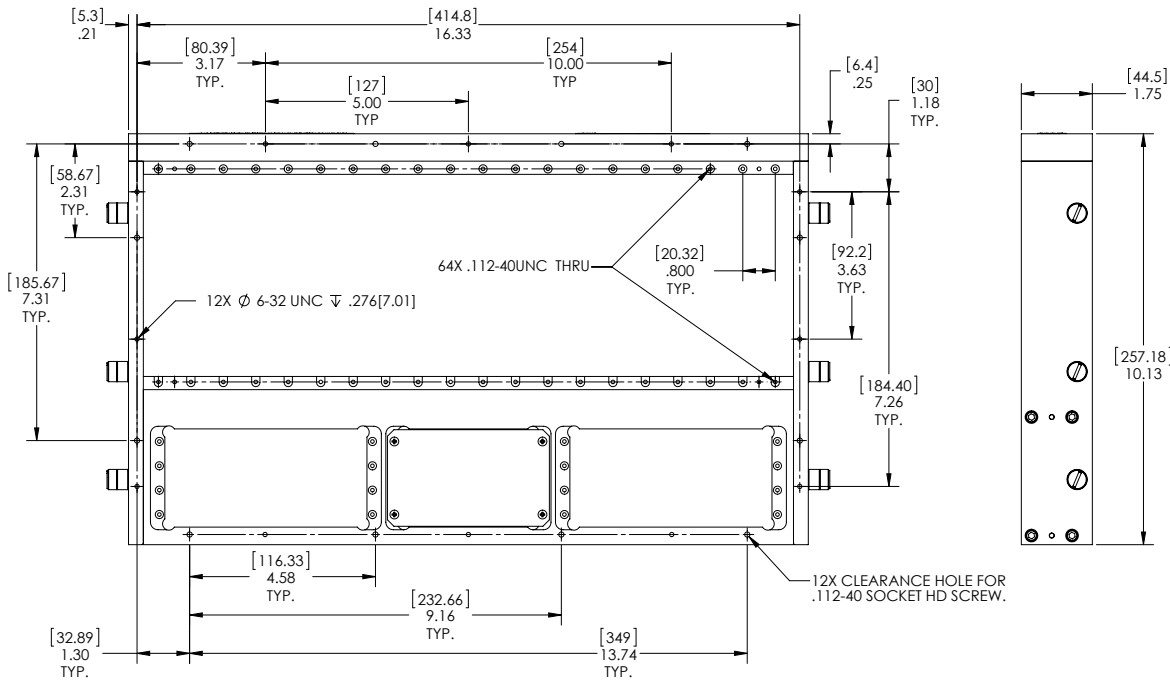
Receiver Specifications

Frame Material	Anodized aluminum
Slide Material	Nickel plated steel
Linkage, Handle, Latch Material	Stainless steel
Available Module Slots	20 vertical module positions and eight horizontal module positions
Cycle Life	20,000 cycles
Temperature	-55° C to 85° C
Max. Weight Support	80 lbs @ 12" [36 kg @ 30.5 cm]
Max. Mating Force	1257 lbs [570.2 kg]



The G20x Pull-Thru receiver offers the same features of the G20 Pull-Thru system and adds an additional eight modules in an extended tier for higher I/O needs.

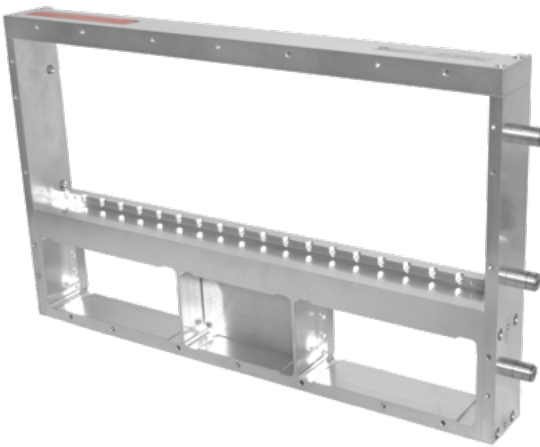
G20x ITA • Pull-Thru • 28 Module Solution



ITA, G20x, 28 Module, Pull-Thru • Part # 410 120 210

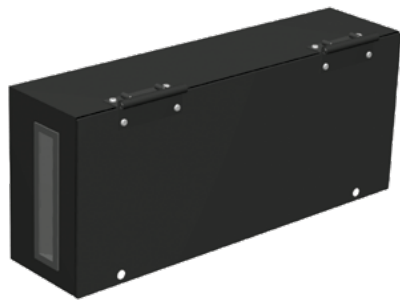
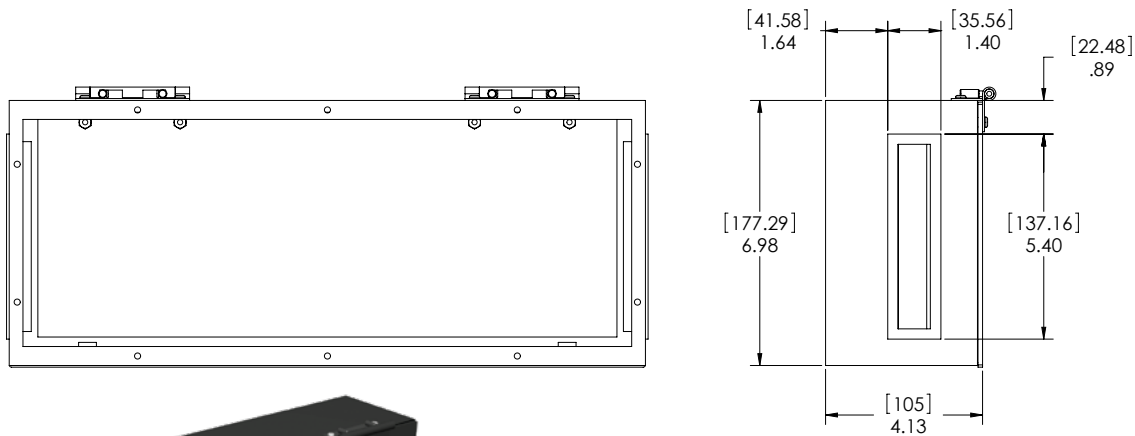
ITA Specifications

Frame Material	Chromated aluminum
Available Slots	20 vertical module positions and eight horizontal module positions
Cycle Life	20,000 cycles
Temperature	-55° C to 85° C
Max. Mating Force	1257 lbs [570.2 kg]



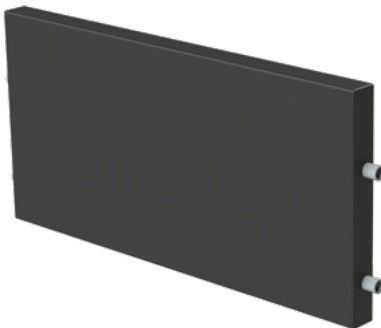
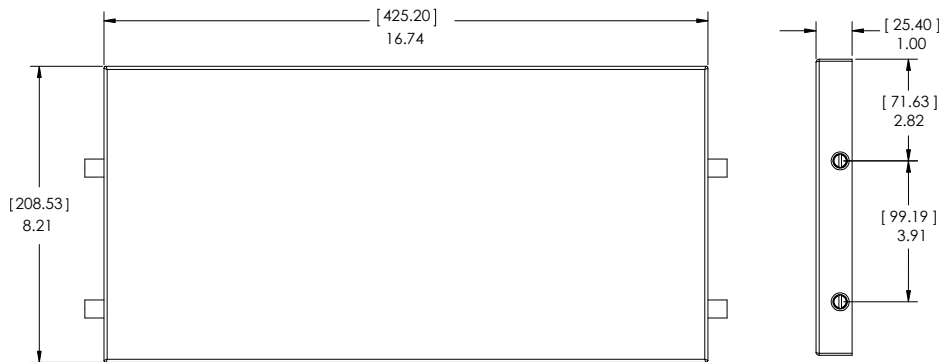
Accommodating 28 modules, the G20x Pull-Thru ITA can be used in a variety of applications to make the required connection to the G20x Pull-Thru receiver Part # 310 120 186.

G20/G20x Pull-Thru • Accessories



The 20 module enclosure is made of aluminum, painted black, and secured to the ITA by eight socket head cap screws (included). It has a depth of 4".

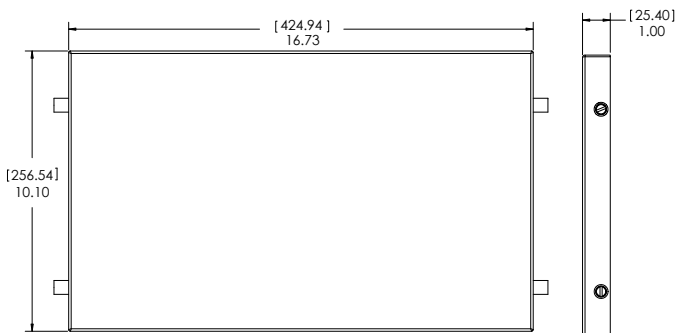
Enclosure, 20 Module, Hinged Cover Plate, 4" Deep • **Part # 410 112 790**



The G20 Pull-Thru receiver protective cover attaches securely to your receiver for easy and effective protection of contacts and modules.

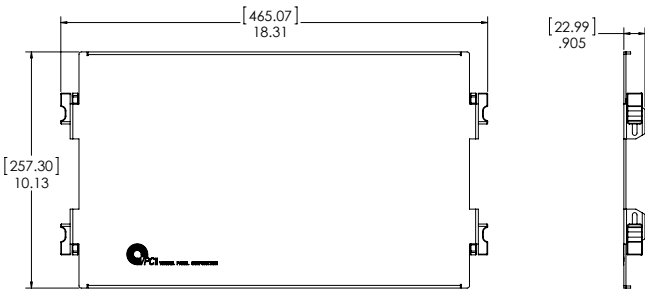
Protective Cover, G20, Receiver, Pull-Thru • **Part # 310 113 422**

G20/G20x Pull-Thru • Accessories



The receiver protective cover protects contacts and modules when the receiver is not in use.

Protective Cover, G20x, Receiver, Pull-Thru, EMI • **Part # 310 113 597**



The ITA protective cover protects contacts and modules when the ITA is not in use.

Protective Cover, G20x, ITA, Pull-Thru • **Part # 410 112 986**

G40x • Pull-Thru • 48 Module Solution

The G40x Pull-Thru is a two tier, 48 module system that enables pull through removal of 40 VPC modules, InterConnect Adapters, and test instrumentation in one piece. It offers eight additional standard 90 Series module slots, as well as space for two iCon modules as needed. The G40x Pull-Thru is slide mounted, allowing easy access to the discrete-wiring modules.

Features and Benefits

- Screw mount locations correspond to the .80" centers of a PXI chassis, providing a 1:1 interface system
- 40 vertical modules with eight horizontal modules combine for 48 module capacity
- Accepts all standard 90 Series and iCon modules as well as i2 MX
- Enables pull through removal of connector modules and instrumentation from chassis backplane
- Precision engagement mechanism engineered to mate over 11,000 signal points in 12U height
- Modular and configurable
- Reversible handle for right or left mounting

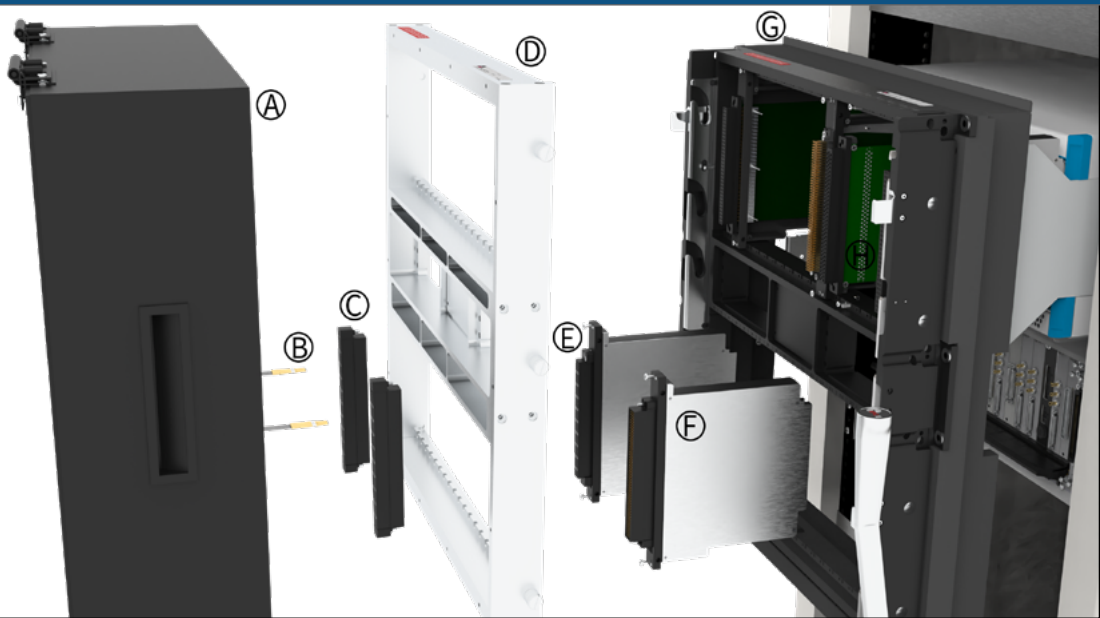


G40x Receiver



G40x Receiver Mounted to Chassis

G40x - 48 Module Pull-Thru Slide Mount Configuration



- A. ITA Enclosure

B. ITA Patchcords

C. ITA Modules

D. ITA Frame
- E. Receiver Modules

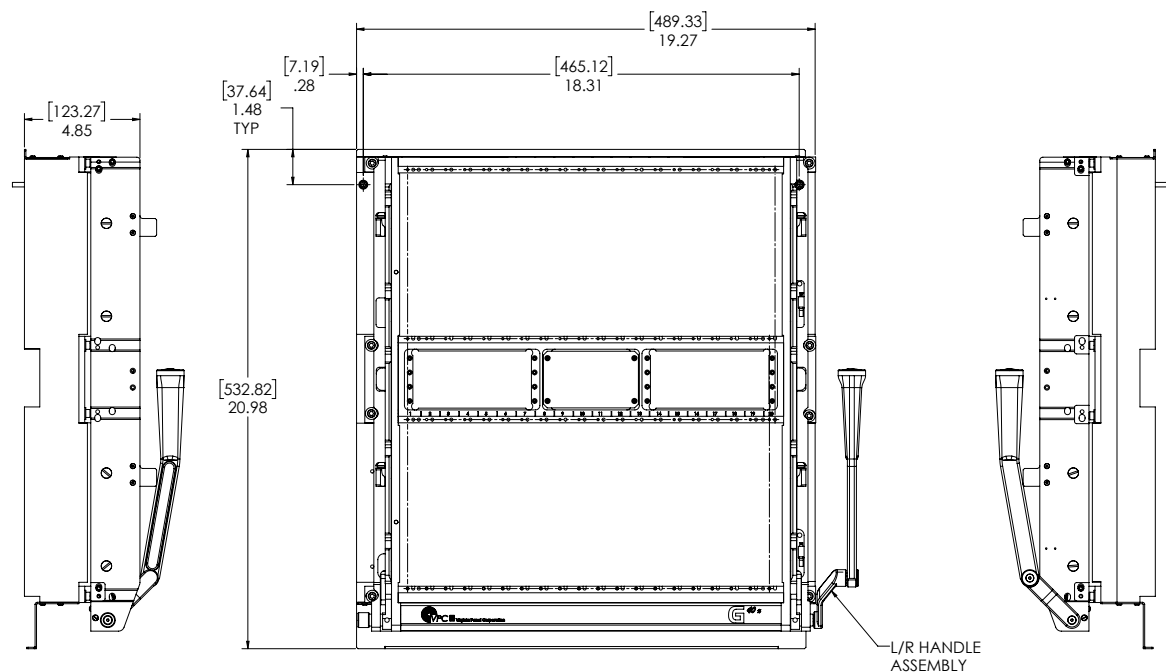
F. Wired Pull-Thru Adapter

G. Receiver Frame

H. Receiver PCB Adapter

Part #	Description
RECEIVER	
310 120 163	Receiver, G40x, 48 Module, Pull-Thru, with Slide Mounting (slide kit required)
ITAS	
410 120 246	ITA, G40x, 48 Module, Pull-Thru
410 120 210	ITA, G20x, 28 Module, Pull-Thru
410 120 199	ITA, G20, 20 Module, Pull-Thru
ENCLOSURE	
410 114 115	Enclosure, 48 Module, Hinged Cover Plate, 6" Deep
SLIDE KITS	
310 113 411	30" Slide Kit, Fits 28"-32" Deep Racks, Supports 180lbs
310 113 451	28" Slide Kit, Fits 26"-30" Deep Racks, Supports 180lbs
310 113 500	36" Slide Kit, Fits 34"-38" Deep Racks, Supports 180lbs
ACCESSORIES	
310 113 686	Protective Cover, G40x, Receiver, Pull-Thru
410 114 144	Protective Cover, G40x, ITA, Pull-Thru, Aluminum
310 113 606	Adapter Plate, Receiver, Pull-Thru, Allows G20x & G40x Accept iCon Modules
410 112 996	Adapter Plate, ITA, Pull-Thru, Allows G20x & G40x to Accept iCon Modules
ADAPTERS	
510 109 461	PXI Pull-Thru Adapter, Single Slot, 1 Module Position
510 109 462	PXI Module Adapter, Single Slot, 1 Module Position

G40x Receiver • Pull-Thru • 48 Module Solution



Receiver, G40x, 48 Module, Pull-Thru, for Slide Mounting (Slide Kit Required) • **Part # 310 120 163**

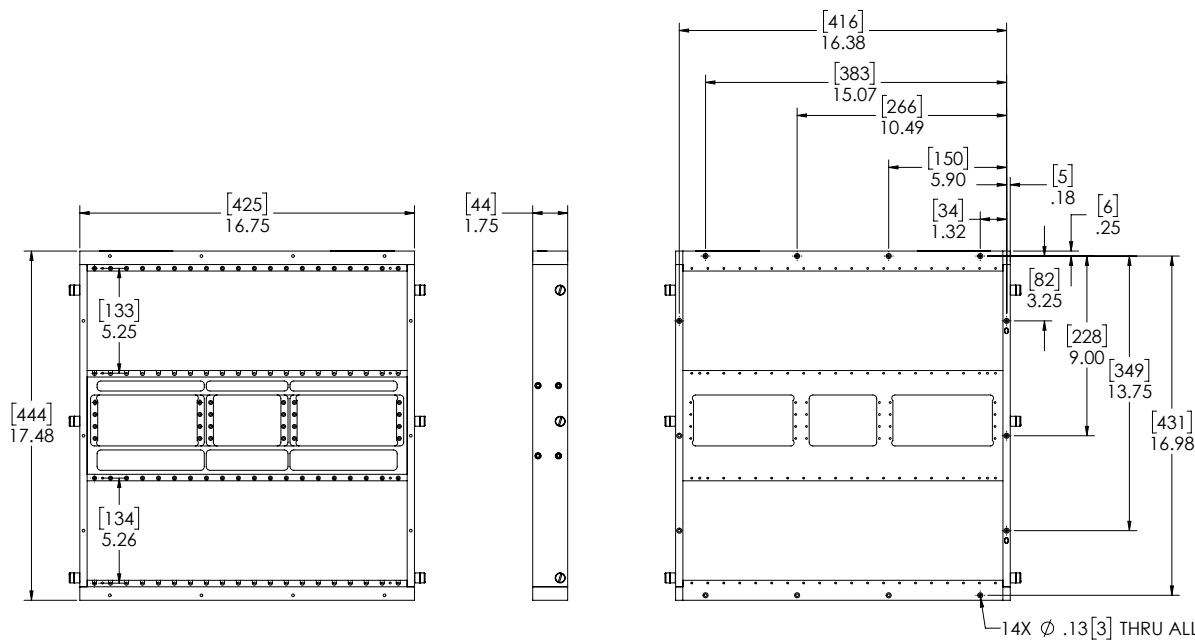
Receiver Specifications

Weight	31.4 lbs [14.2 kg]
Frame Material	Anodized aluminum
Slide Material	Nickel plated steel
Linkage, Handle, Latch Material	Stainless steel
Available Module Slots	40 vertical + eight horizontal + optional 320 position module or two iCon modules (with adapter)
Cycle Life	20,000 cycles
Max. Mating Force	1257 lbs [570.2 kg]
Temperature	-55° C to 85° C
Max. Weight Support	360 lbs @ 12" [163.3 kg @ 30.5 cm]



The G40x Pull-Thru receiver is a two tier, 48 module system that enables pull through removal of 40 VPC modules, InterConnect Adapters, and test instrumentation in one piece. It offers eight standard 90 Series module slots, plus space for two iCon modules, as needed. The G40x Pull-Thru is slide mounted, to enable easy access to the discrete-wiring modules.

G40x ITA • Pull-Thru • 48 Module Solution



ITA, G40x, 48 Module, Pull-Thru • **Part # 410 120 246**

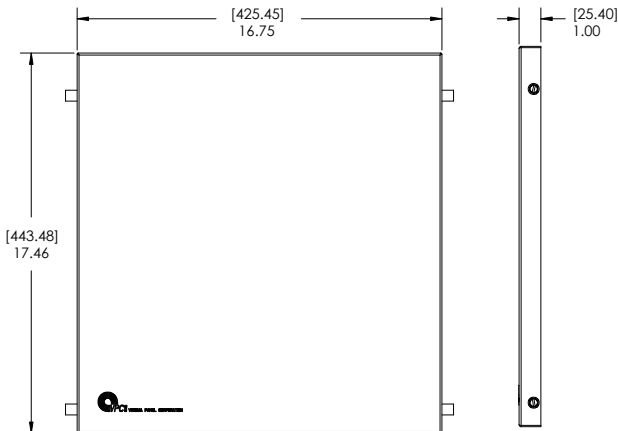
ITA Specifications

Weight	31.4 lbs [14.2 kg]
Frame Material	Chromated aluminum
Available Module Slots	40 vertical + eight horizontal + optional 320 position module or two iCon modules (with adapter)
Cycle Life	20,000 cycles
Temperature	-55° C to 85° C
Max. Mating Force	1257 lbs [570.2 kg]
Max. Weight Support	80 lbs @ 12" [36 kg @ 30.5 cm]



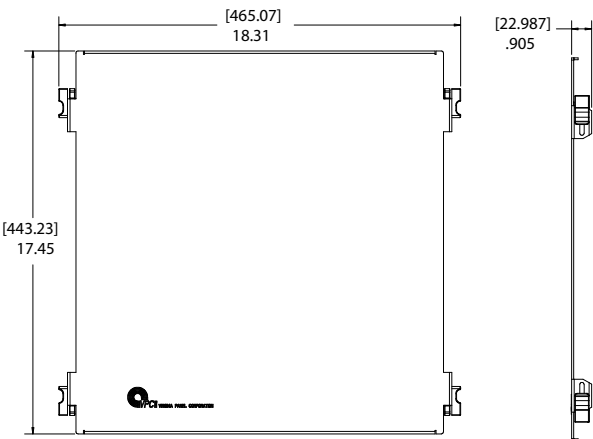
This 48 module Pull-Thru ITA can be used in a number of applications to accomplish the required connection to the unit under test (UUT). You can mount a VPC enclosure or customize your own fixture to be attached to the ITA frame. A wide range of ITA modules are available separately for user configuration.

G40x Pull-Thru • Accessories



The receiver protective cover protects contacts and modules when the receiver is not in use.

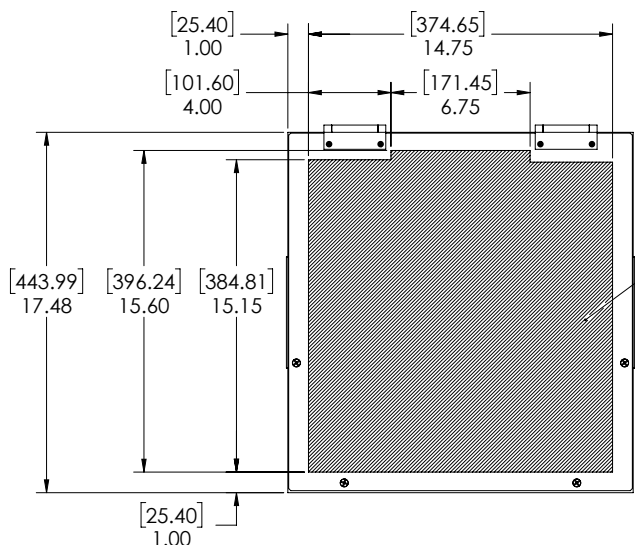
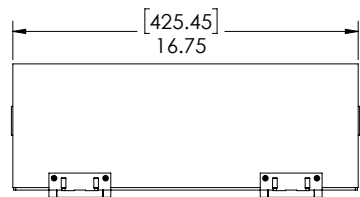
Protective Cover, G40x, Receiver, Pull-Thru • **Part # 310 113 686**



The ITA protective cover protects contacts and modules when the ITA is not in use.

Protective Cover, G40X, ITA, Pull-Thru, Aluminum • **Part # 410 114 144**

G40x Pull-Thru • Accessories



SHADED REGION REPRESENTS RECOMMENDED MACHINABLE AREA ON COVER. FEATURES OUTSIDE OF THIS REGION MAY INTERFERE WITH EXISTING COMPONENTS OR FEATURES.

This 48 module enclosure features a hinged cover plate with ¼-turn hardware that provides easy access to the ITA wiring.



Enclosure, G40x, Hinged Cover Plate, 6" Deep • **Part # 410 114 115**

Explore the choices

9025 & 9050

Rack Mounting Applications

- The high I/O systems are ideal for rack mounting applications
- Mount to a Vertical Hinged Mounting Frame or slides for access to wiring and instrumentation
- Time savings with rapid changeover

9025



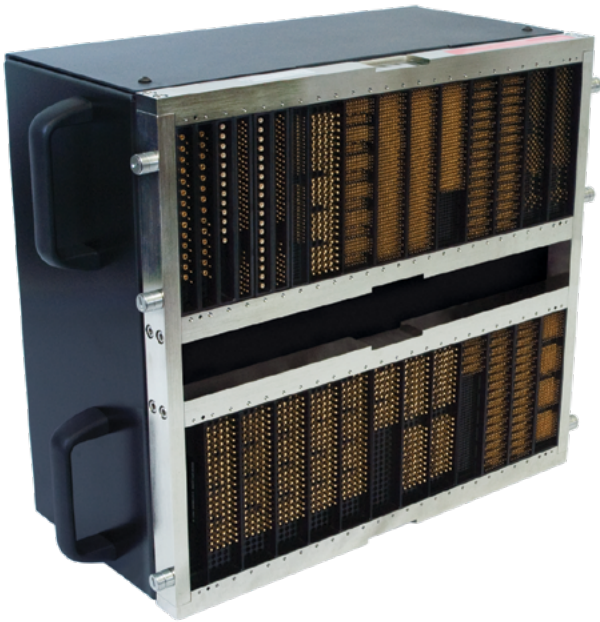
9025 Receiver

- Enhanced mechanical advantage with 30% reduced handle force and lighter weight
- Available in rack and slide mount configurations
- Platform options with the 9025TR
- Silk screening enables easy installation and coordination of ITA and receiver modules



Customize for Various Testing Needs

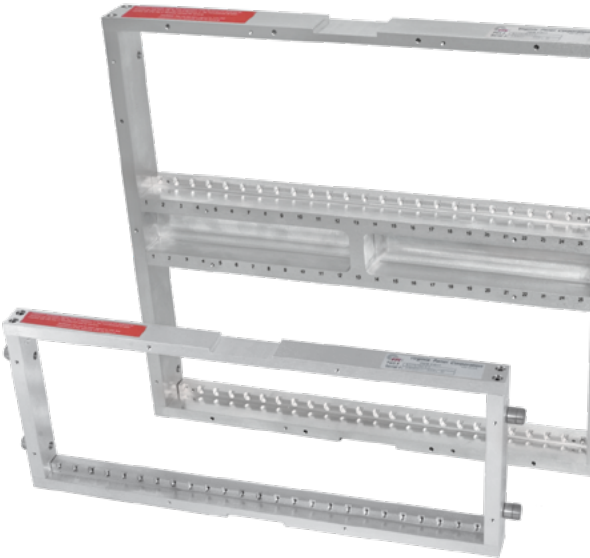
- Multiple ITAs are pre-configured for different tests
- Intermix connector modules to build custom interfaces
- Accommodate vacuum or mechanical fixturing



9025

Standard ITAs

- Use VPC ITAs with standard enclosures
- Customized enclosures available to fit your testing needs
- Guarantee a precise fit to VPC receivers
- Front and rear mount ITAs enable easy attachment to enclosures



9025 • 25 Module Solution

VPC's receivers meet the standards which are essential to support advanced interconnect solution requirements. Connector modules can be intermixed to establish custom interfaces which are ideal for functional and system testing applications.

Features and Benefits

- Precision engagement mechanism engineered to mate over 5,900 contacts
- Standard ITA frame accommodates multiple enclosure types for a variety of fixture options
- Modular and reconfigurable for evolving tests requirements
- Reliable connectivity beyond 20,000 cycles
- Quick and easy integration and maintenance
- Wide range of I/O options including signal, coaxial, power, pneumatic, vacuum, thermocouple, fiber optic, and PCB solutions
- An integrated microswitch shuts power off when the ITA disengages
- Designed to fit a standard 19" rack
- Mounting options include: Vertical Hinged Mounting Frames and slide mount

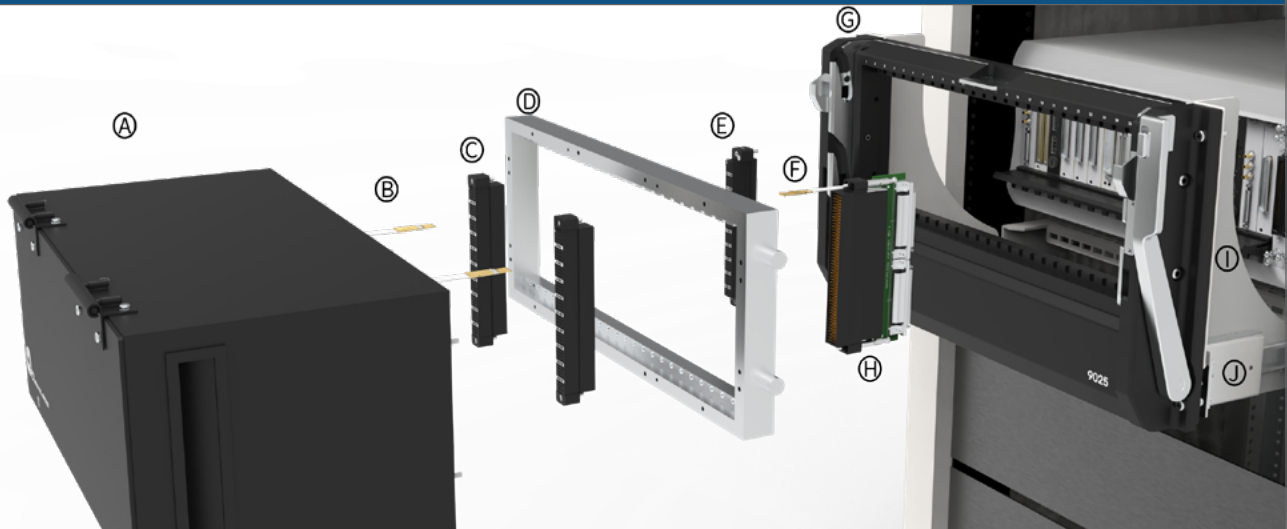


9025 Receiver



Slide Mount 9025 Receiver

9025 Slide Configuration



- A. ITA Enclosure

B. ITA Patchcords

C. ITA Module

D. ITA Frame
- E. Receiver Module

F. Receiver Patchcords

G. 9025 Receiver

H. PCB Adapter
- I. Mounting Flanges

J. Slide Kit

Part #	Description
RECEIVERS	
310 104 437	Receiver, 9025, 25 Module, with Slide Mounting Kit (slide kit required)
310 104 420	Receiver, 9025, 25 Module, Single Tier
310 104 431	Receiver, 9025, 25 Module, EMI Gasket
ITAS	
410 104 111	ITA, 9025, 25 Module, Single Tier
410 104 304	ITA, 9025, 25 Module, EMI, with 8" Enclosure
410 104 306	ITA, 9025, 25 Module, Single Tier, for EMI
410 104 505	ITA, 9025, 25 Module, Single Tier, 1.5" Thick
ENCLOSURES	
410 112 198	Enclosure, 25 Module, Hinged Cover Plate, 4" Deep
410 112 273	Enclosure, 25 Module, Hinged Cover Plate, 8" Deep
410 112 368	Enclosure, 25 Module, Large
SLIDE KITS	
310 113 451	28" Slide Kit, Fits 26"-30" Deep Racks, Supports 180lbs
310 113 411	30" Slide Kit, Fits 28"-32" Deep Racks, Supports 180lbs
310 113 500	36" Slide Kit, Fits 34"-28" Deep Racks, Supports 180lbs
MOUNTING FRAMES	
310 113 316	Vertical Hinged Mounting Frame, 9025, 8U
310 113 320	Vertical Hinged Mounting Frame, 9025, 9U
ADAPTER PLATE	
410 112 976	Adapter Plate, 9050 Enclosure to 9025 ITA (ITA Positioned on Lower Part of Enclosure)
ACCESSORIES	
310 113 163	Protective Cover, 9025, 9025VXI & 9025TR, Receiver
410 112 578	Protective Cover, 9025, 9025VXI & 9025TR, ITA
310 113 542	Instrument Bracket Mounting Block Kit, for use with Pickering PXI Chassis

9025TR • 25 Module Solution

The 9025TR has over twice the I/O as the G12 and is outfitted with the same 20" platform to support your enclosure while engaging and disengaging. The front-mount ITA is user-friendly, allowing the enclosure or fixture to be fastened from the mating side. The docking feature of the 9025TR provides an easy way of guiding a fixture into position prior to engagement. Runners along the platform provide a smooth-sliding action, ideal when using fixtures up to 180 lbs. VPC modules can be intermixed to establish flexible custom interfaces which are ideal for functional and system testing applications. The 9025TR uses all standard modules and contacts, and includes a microswitch.

Features and Benefits

- 20" platform supports ITA when not in use (up to 180 lbs)
- Handle can be installed on either the right or left side of the receiver
- Accommodates over 5,900 signal contacts
- Accessories available: slide kit, support legs, retractable keyboard kit, and instrument bracket with strain relief

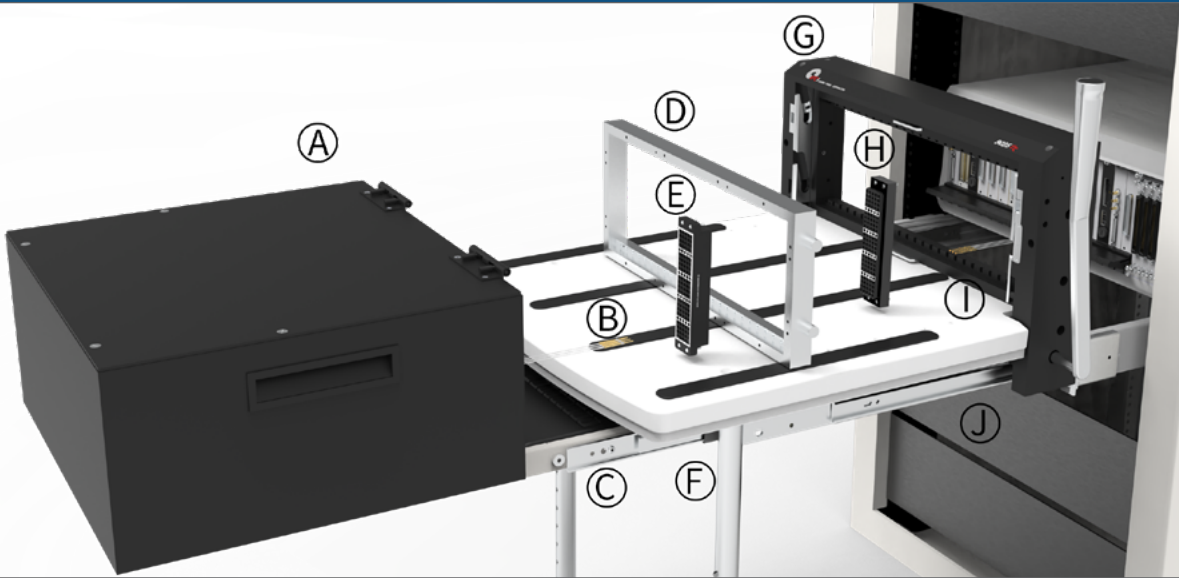


9025TR Receiver



Slide Mount 9025TR Receiver

9025TR Slide Configuration



- A. ITA Enclosure

B. ITA Patchcords

C. Keyboard Tray

D. ITA Frame
- E. ITA Module

F. Leg Kit

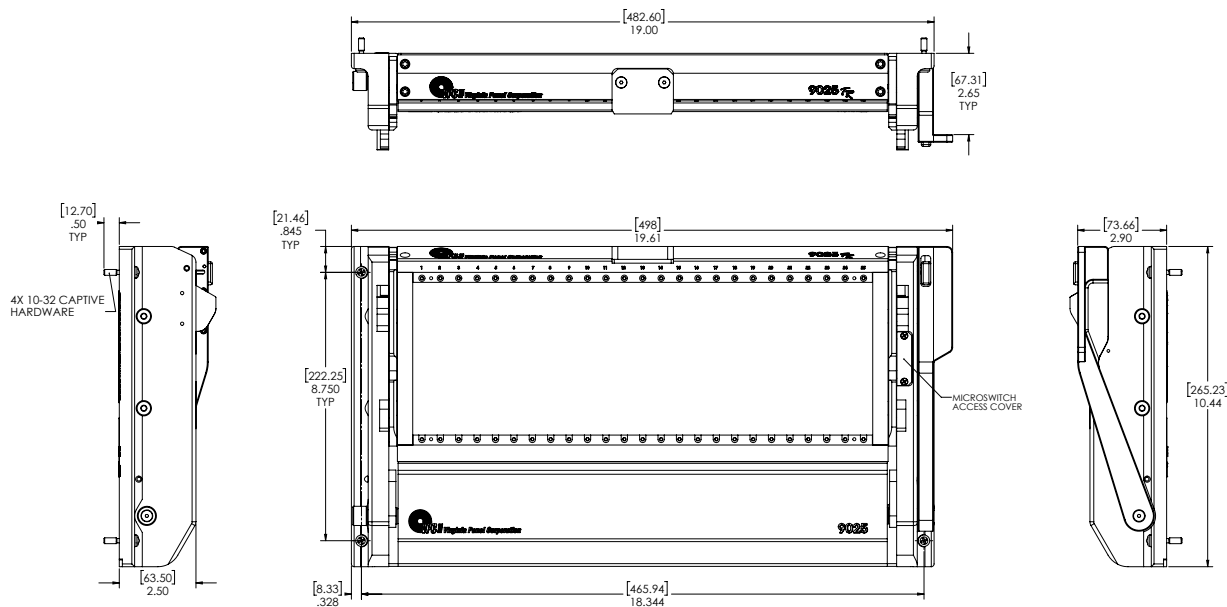
G. Receiver Frame

H. Receiver Module
- I. Receiver Patchcords

J. Slide Kit

Part #	Description
RECEIVERS	
310 104 435	Receiver, 9025TR, 25 Module, with 20" Platform (slide kit required)
310 104 436	Receiver, 9025TR, 25 Module, with 20" Platform, for Tabletop
ITAS	
410 104 111	ITA, 9025, 25 Module, Single Tier
410 104 505	ITA, 9025, 25 Module, Single Tier, 1.5" Thick
ENCLOSURES	
410 112 273	Enclosure, 25 Module, Hinged Cover Plate, 8" Deep
410 112 368	Enclosure, 25 Module, Large
410 112 823	Enclosure, 25 Module, Hinged Cover Plate, 15" Deep
410 114 103	Enclosure, 25 Module, Front Mount, Sloped, with G10 Cover
410 114 004	Enclosure, 25 Module, Front Mount, Sloped, for 9025TR
SLIDE KITS	
310 113 409	20" Slide Kit, Fits 18"-22" Deep Racks, Supports 180 lbs.
310 113 410	24" Slide Kit, Fits 22"-26" Deep Racks, Supports 180 lbs.
310 113 451	28" Slide Kit, Fits 26"-30" Deep Racks, Supports 180 lbs.
310 113 411	30" Slide Kit, Fits 28"-32" Deep Racks, Supports 180 lbs.
310 113 500	36" Slide Kit, Fits 34"-38" Deep Racks, Supports 180 lbs.
ACCESSORIES	
310 113 163	Protective Cover, 9025, 9025VXI & 9025TR, Receiver
410 112 578	Protective Cover, 9025, 9025VXI & 9025TR, ITA
410 114 133	Enclosure Accessory Kit, Gas Spring for Sloped Enclosure
310 113 424	Cable Tray, Slide Configuration, for Strain Relief and Cable Management, for 28" and longer slides only
310 113 439	Keyboard Tray Kit, Slide Configuration, Keyboard with Touchpad Mouse Included
310 113 453	Instrument Bracket Kit with Strain Relief, for 28" and longer slides only
310 113 494	Rack Extender Kit, 9025TR, 1.5" Deep
310 113 566	Adjustable Leg Kit for the 20" Platform, 27"-36", Supports 350 lbs.

9025 Receiver • 25 Module Solution



Receiver, 9025, 25 Module, Single Tier • **Part # 310 104 420**

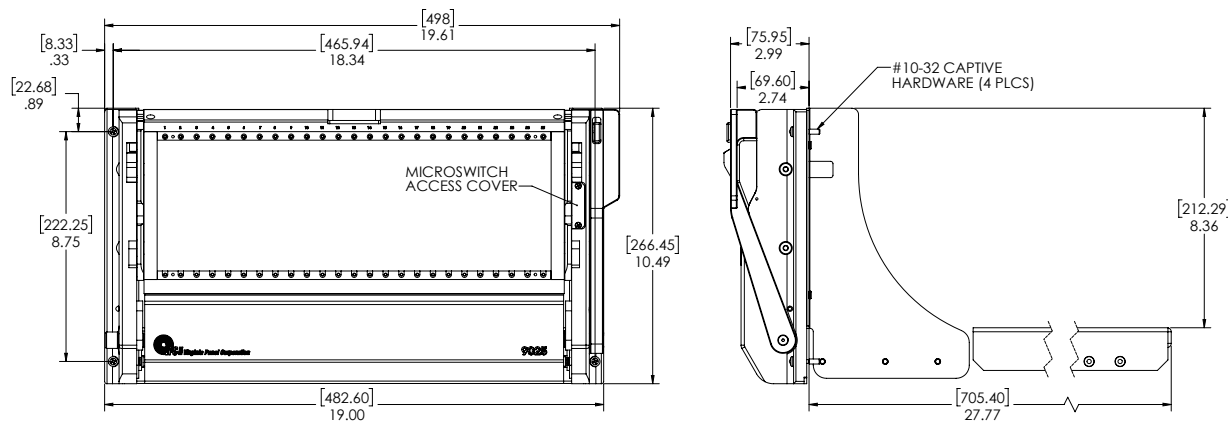
Receiver Specifications

Weight	12.6 lbs [5.72 kg]
Frame Material	Anodized aluminum
Slide Material	Nickel plated steel
Linkage, Handle, Latch Material	Stainless steel
Available Module Slots	25 positions
Cycle Life	20,000 cycles
Temperature	–55° C to 85° C
Max. Weight Support	80 lbs @ 12" [36 kg @ 30.5 cm]
Max. Mating Force	1102 lbs [499.9 kg]



The 25 module receiver is designed to fit into a standard 19" rack. It is equipped with a locking handle to ensure your contacts are engaged. A standard integrated microswitch shuts off power when the ITA disengages from the receiver.

9025 Receiver with Slide Mount Kit • 25 Module Solution



Receiver, 9025, 25 Module, with Slide Mounting Kit (slide kit required) • **Part # 310 104 437**

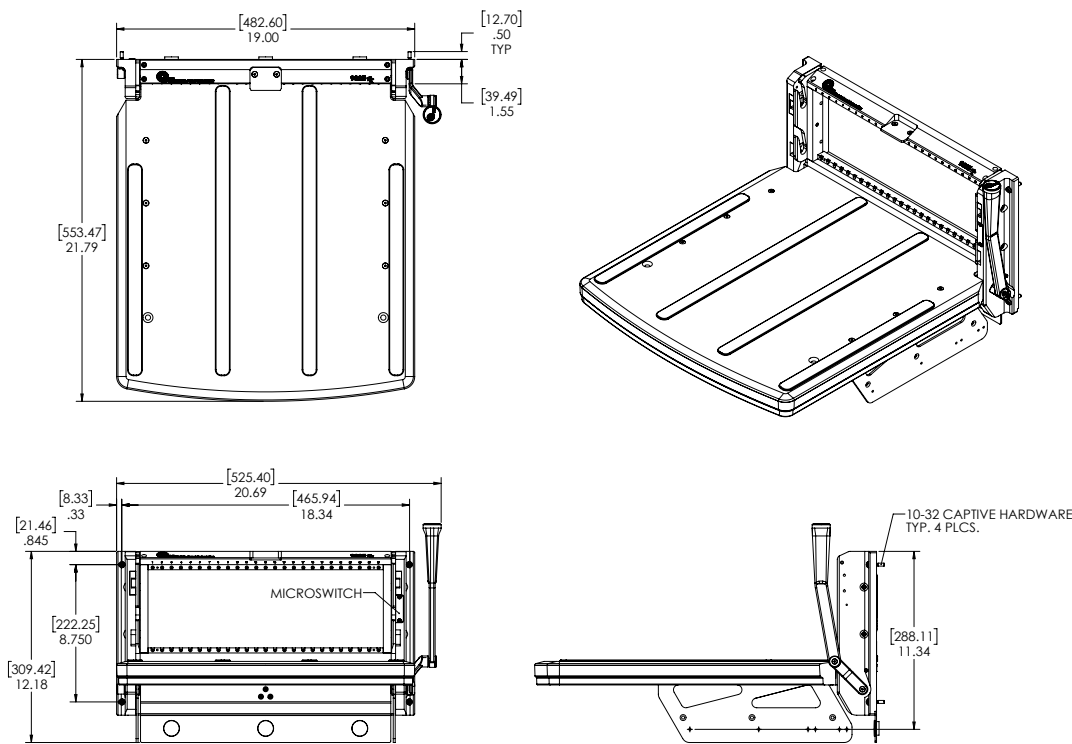
Receiver Specifications

Weight	18.3 lbs [8.3 kg]
Frame Material	Anodized aluminum
Slide Material	Nickel plated steel
Linkage, Handle, Latch Material	Stainless steel
Mounting Flange, Instrument Bracket Material	Aluminum
Available Module Slots	25 positions
Cycle Life	20,000 cycles
Temperature	–55° C to 85° C
Max. Weight Support	80 lbs @ 12" [36 kg @ 30.5 cm]
Max. Mating Force	1102 lbs [499.9 kg]



This 9025 receiver is designed to work with a slide kit and includes a mounting bracket, flanges, and instrument bracket. A slide kit is required for use.

9025TR Receiver with Platform • 25 Module Solution



Receiver, 9025TR, 25 Module, with 20" Platform (slide kit required) • Part # 310 104 435

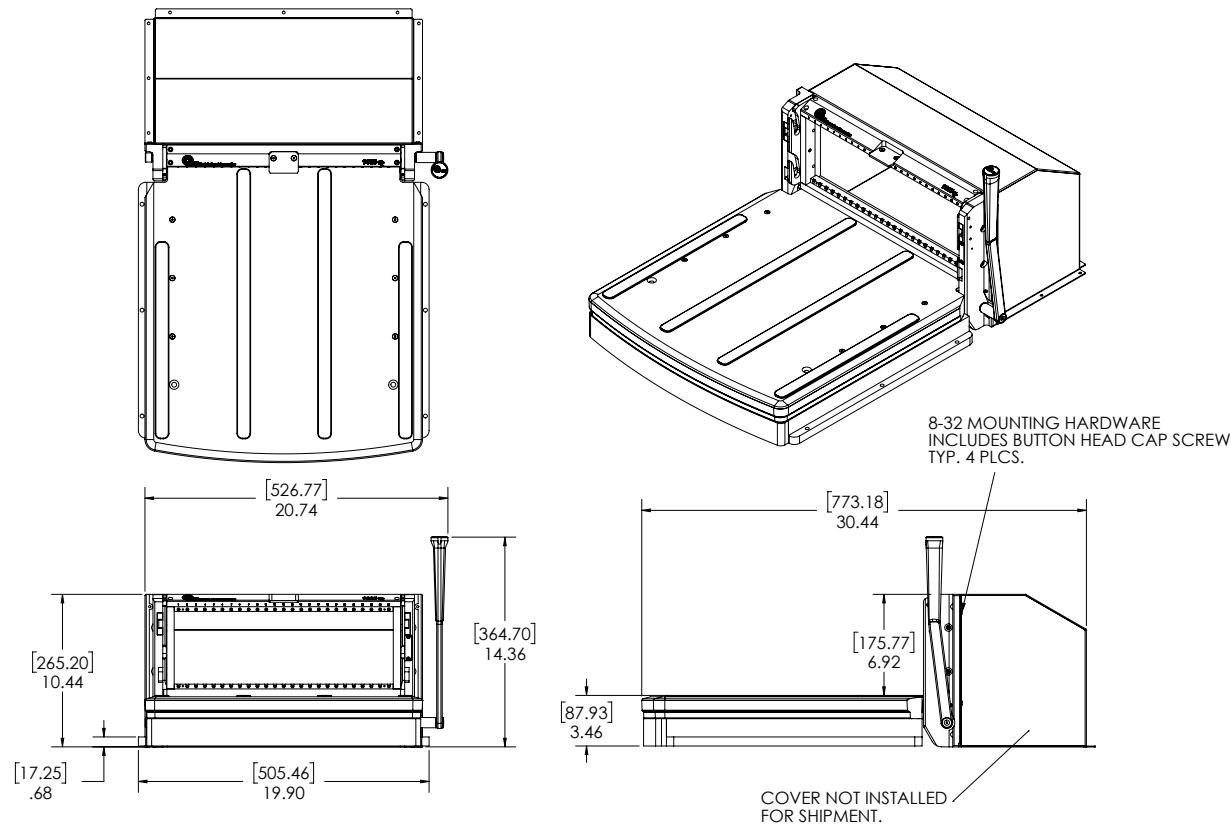
Receiver Specifications

Weight	29.50 lbs [13.38 kg]
Frame Material	Anodized aluminum
Slide Material	Nickel plated steel
Linkage, Handle, Latch Material	Stainless steel
Available Module Slots	25 positions
Cycle Life	20,000 cycles
Temperature	-55° C to 85° C
Max. Mating Force	1378 lbs [625.1 kg]
Max. Weight Support	180 lbs @ 12" [81.65 kg @ 30.5 cm]



Runners along the platform provide a smooth-sliding action, ideal when using fixtures up to 180 lbs. When used in conjunction with VPC slide mounts and leg kit, the receiver can support 350 lbs. The 9025TR can be adapted to accommodate vacuum or mechanical fixturing. The 9025TR uses all standard 90 Series modules and contacts, includes a microswitch and is available with optional leg and keyboard tray kits. A slide kit is required for use.

9025TR Receiver for Tabletop • 25 Module Solution



Receiver, 9025TR, 25 Module, with 20" Platform, for Tabletop • Part # 310 104 436

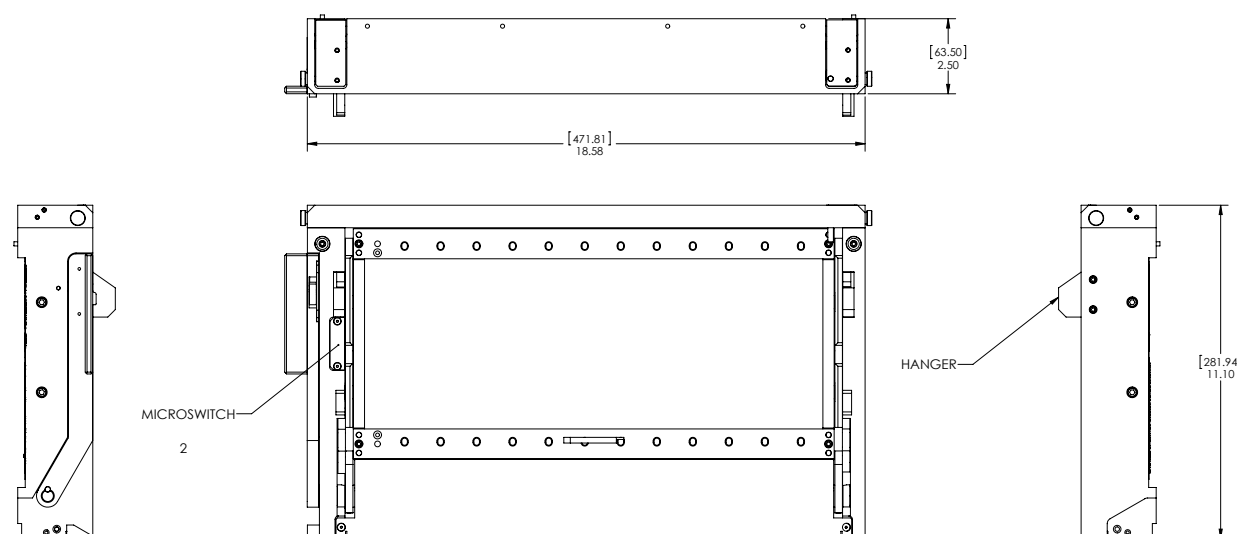
Receiver Specifications

Weight	38.1 lbs [17.28 kg]
Frame Material	Anodized aluminum
Slide Material	Nickel plated steel
Linkage, Handle, Latch Material	Stainless steel
Available Module Slots	25 positions
Cycle Life	20,000 cycles
Temperature	-55° C to 85° C
Max. Mating Force	1378 lbs [625.1 kg]



The 9025TR for tabletop allows the receiver to be mounted to any horizontal surface. Four removable rubber feet enable permanent tabletop mounting configurations. Rear covers are available to protect wiring from the receiver to the test equipment.

9025 VXi C-Size Interlocking • 25 Module Solution

Receiver, 9025, 25 Module VXi, C-Size Interlocking • **Part # 310 104 127**

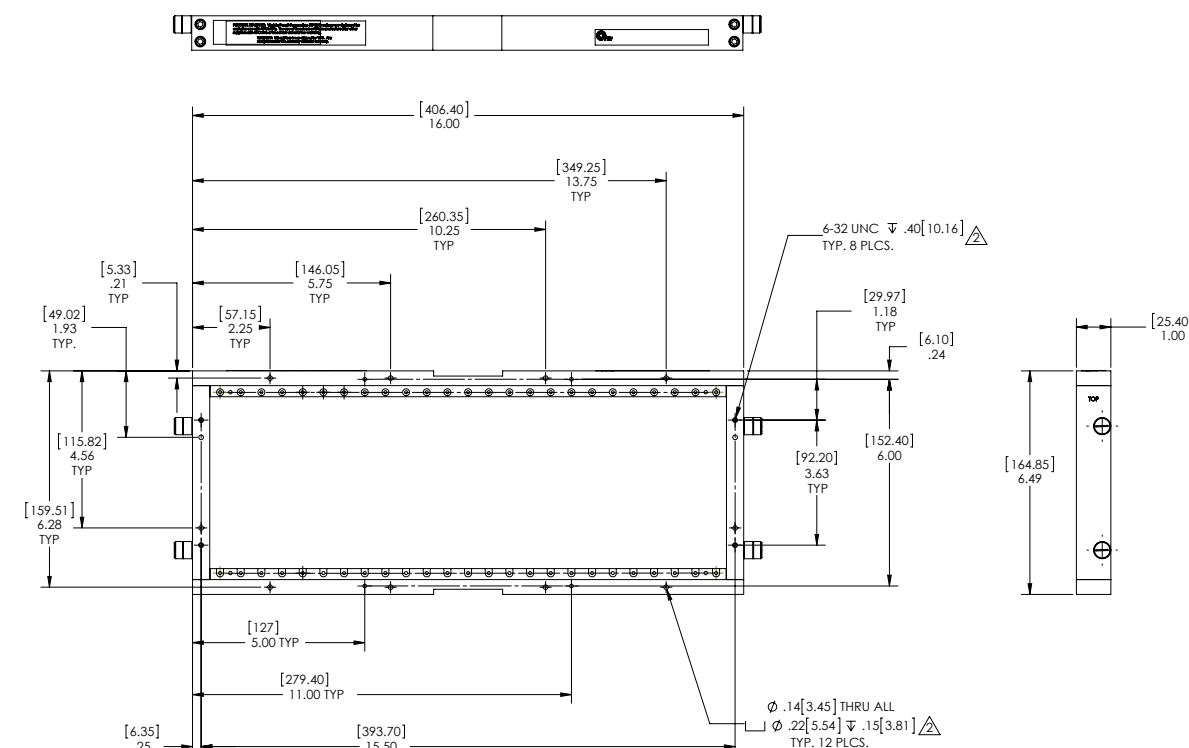
Receiver Specifications

Weight	16.06 lbs [7.29 kg]
Frame Material	Anodized aluminum
Slide Material	Nickel plated steel
Linkage, Handle, Latch Material	Stainless steel
Available Module Slots	25 positions
Cycle Life	20,000 cycles
Temperature	-55° C to 85° C
Max. Mating Force	605 lbs [274.4 kg]
Max. Weight Support	80 lbs @ 12" [36 kg @ 30.5 cm]



The 25 module VXI receiver allows you to use 12 pre-wired InterConnect adapters. It also hinges down for direct access to the instruments. It is equipped with a locking handle to ensure your contacts are engaged. A standard integrated microswitch shuts off power when the ITA disengages from the receiver.

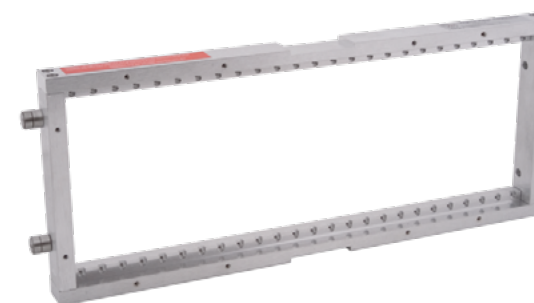
9025 ITA • 25 Module Solution



ITA, 9025, 25 Module, Single Tier • **Part # 410 104 111**

ITA Specifications

Weight	2.6 lbs [1.18 kg]
Frame Material	Chromated aluminum
Available Module Slots	25 positions
Cycle Life	20,000 cycles
Temperature	-55° C to 85° C
Max. Mating Force	787 lbs [357 kg]

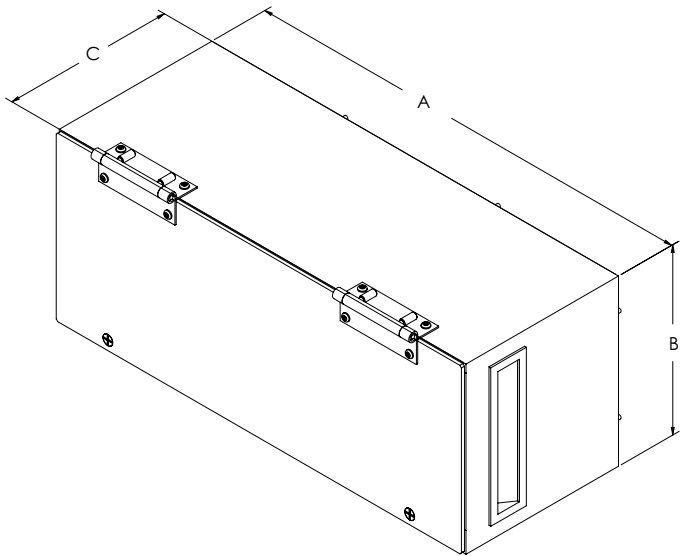


This ITA can accept both front and rear mount enclosures. It supports a maximum load of 787 lbs to achieve .015" total deflection. If application calls for a load that exceeds 787 lbs, please refer to VPC's 1.5" thick 9025 ITA Part # 410 104 505.

9025 ITA Enclosure

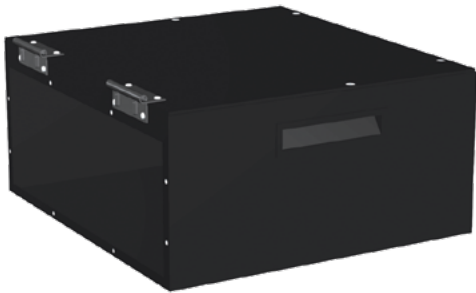
Enclosures for 25 module ITAs are made of aluminum and painted black. The top of the enclosure has a hinged cover plate with ¼ turn hardware that provides easy access to the ITA's wiring when required. The 9025 ITA can accept both front and rear mount enclosures.

All cover plates are black anodized. Screws for mounting the enclosures to the ITA are included. Handles are provided for easy removal of the ITA from the receiver.



Part #	Description	A	B	C
410 112 198	Enclosure, 25 Module, Hinged Cover Plate, 4" Deep	16.00 [406.4]	6.48 [164.6]	4.00 [101.6]
410 112 336	Enclosure, 50 Module, 50 Module 4" Adapter for 25 Module, Hinged Cover	16.00 [406.4]	12.46 [316.48]	4.12 [104.648]
410 112 273	Enclosure, 25 Module, Hinged Cover Plate, 8" Deep	16.00 [406.4]	6.48 [164.6]	8.00 [203.2]
410 112 823	Enclosure, 25 Module, Hinged Cover Plate, 15" Deep	16.00 [406.4]	7.35 [186.69]	14.97 [380.28]
410 112 368	Enclosure, 25 Module, Large			
410 114 103	Enclosure, 25 Module, Front Mount, Sloped, for 9025TR, w/G10 Cover			

9025 Accessories



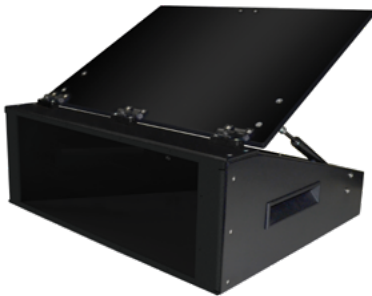
Made of aluminum, the enclosure body is painted black and features a hinged cover plate with ¼ turn hardware that provides easy access to the ITA wiring. The enclosure is secured to the ITA by 12 #4 socket head cap screws.

Enclosure, 25 Module, Hinged Cover Plate, 15" Deep • **Part # 410 112 823**



The rack extender kit is used for mounting to racks with mounting rails recessed more than 1". It is made of aluminum with a black anodized finish.

Rack Extender Kit, 9025TR, 1.5" Deep
Part # 310 113 494



This 25 module enclosure is made of powder coated aluminum. The top of the enclosure has a G10 hinged cover plate with ¼-turn hardware that provides easy access to the ITA wiring when required.

Enclosure, 25 Module, Front Module, Sloped, for 9025TR, with G10 Cover • **Part # 410 114 103**



The aluminum receiver protective cover protects contacts and modules when the ITA is not in use.

Protective Cover, 9025, 9025TR Receiver
Part # 310 113 163



This 25 module enclosure is made of powder coated aluminum. The top of the enclosure has a hinged cover plate with ¼-turn hardware that provides easy access to the ITA wiring when required.

Enclosure, 25 Module, Front Mount, Sloped, for 9025TR • **Part # 410 114 004**



The aluminum ITA protective cover protects contacts and modules when the ITA is not in use.

Protective Cover, 9025, 9025TR ITA
Part # 410 112 578

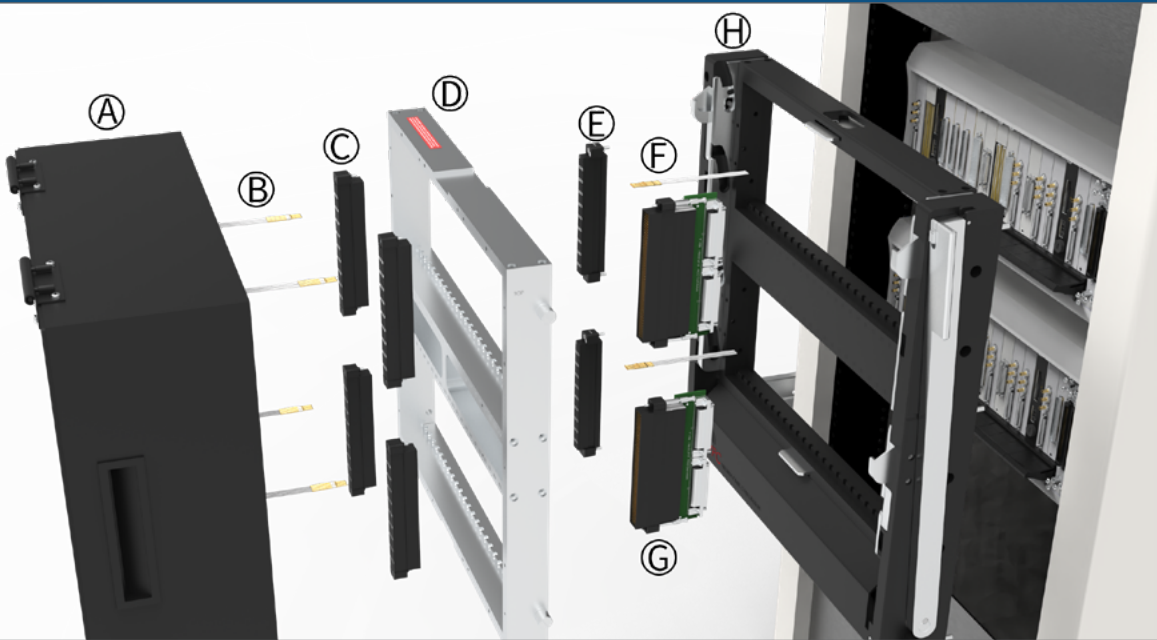
9050 • 50 Module Solution

The rack mountable 9050 receiver is designed to accept the 9025 and 9050 ITAs and is essential to support advanced interconnect solution requirements. The receiver hinges down to give the user access to instruments in the rack. The 50 module discrete-wiring receiver is available in rack mount, slide mount, and platform slide mount versions. The slide and rack mount options can accept two 9025 ITAs in addition to the standard 50 module ITA. The 50 module solution can be adapted to accommodate vacuum or mechanical fixturing. Connector modules can also be intermixed to establish custom interfaces, which are ideal for functional and system testing applications.

Features and Benefits

- Precision engineered engagement mechanism
 - Standard ITA frame accommodates multiple enclosure types for a variety of fixture options
 - Modular and reconfigurable for evolving test requirements
 - Reliable connectivity beyond 20,000 cycles
 - Quick and easy integration and maintenance
 - Wide range of I/O options including signal, coaxial, power, pneumatic, vacuum, thermocouple, fiber optic, and PCB solutions
 - Designed to fit a standard 19" rack
- An integrated microswitch that shuts power off when the ITA disengages
 - Mounting options include: rack mount, slide mount, and platform slide mount

9050 Rack Mount Configuration



- A. ITA Enclosure

B. ITA Patchcords

C. ITA Module
- D. ITA Frame

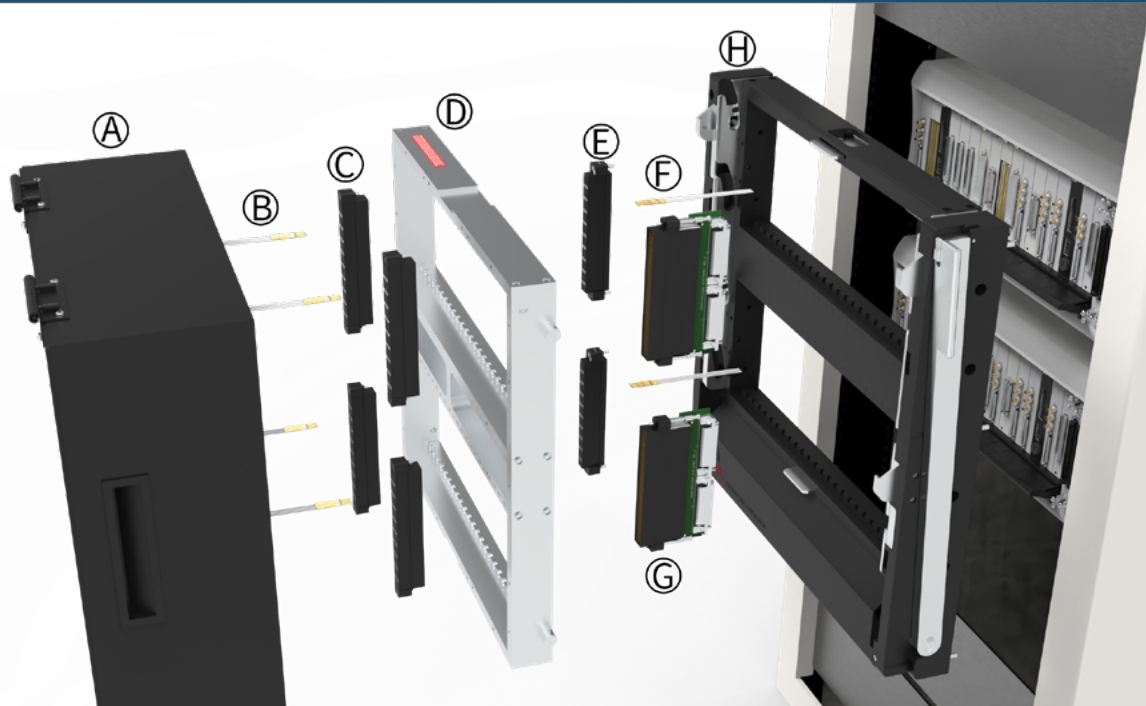
E. Receiver Module

F. Receiver Patchcords
- G. PCB Adapter

H. Receiver Frame

Part #	Description
RECEIVER	
310 104 248	Receiver, 9050, 50 Module, VXI and Discrete Wiring, Double Tier**
ITAS	
410 104 538	ITA, 9050, 50 Module, VXI and Discrete Wiring, Double Tier
410 104 111	ITA, 9025, 25 Module, Single Tier
ENCLOSURES	
410 112 375	Enclosure, 50 Module, Hinged Cover Plate, 8" Deep
410 112 463	Enclosure, 50 Module, Hinged Cover Plate, 6" Deep
410 112 519	Enclosure, 50 Module, Hinged Cover Plate, 12" Deep
410 112 770	Enclosure, 50 Module, L-Shaped
ACCESSORIES	
310 113 285	Protective Cover, 9050, VXI and Discrete Wiring, Receiver
410 112 579	Protective Cover, 9050, ITA
410 112 578	Protective Cover, 9025, 9025VXI & 9025TR, ITA
410 112 582	Protective Cover, 9050, VXI and Discrete Wiring, ITA
** With a typical contact load, approximately 35 lbs force is needed to engage the receiver handle. Consult VPC for increased contact load applications.	

9050 Slide Configuration



- A. ITA Enclosure

B. ITA Patchcords

C. ITA Module

D. ITA Frame
- E. Receiver Module

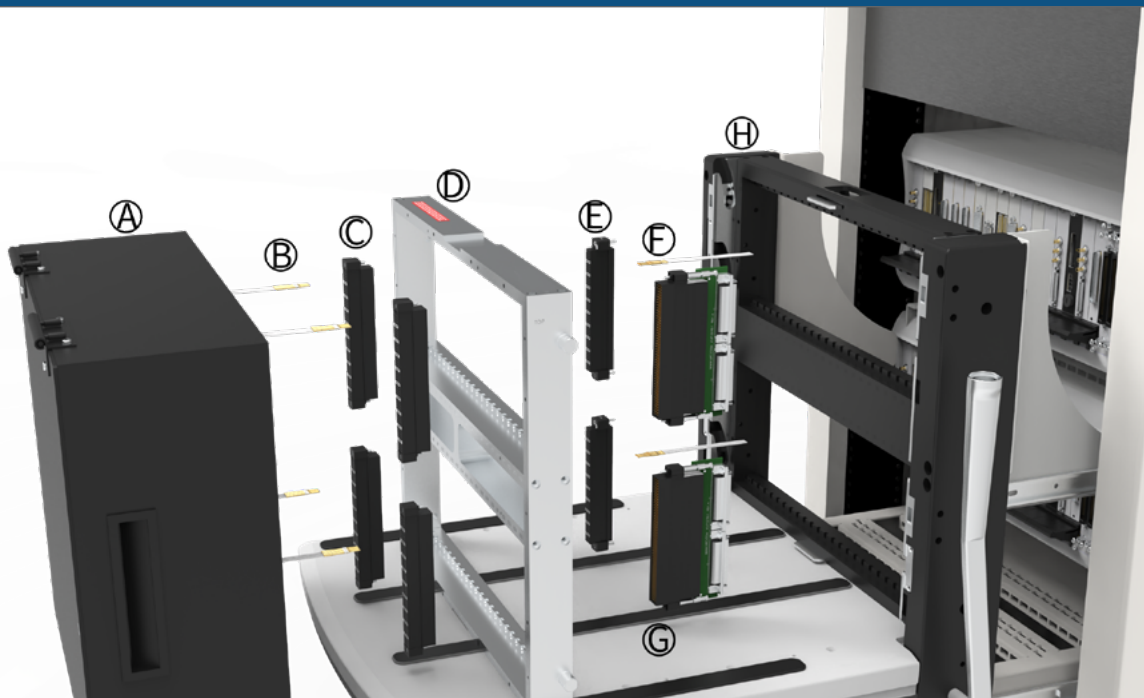
F. Receiver Patchcords

G. PCB Adapter

H. Receiver Frame

Part #	Description
RECEIVERS	
310 104 402	Receiver, 9050, 50 Module, with Slide Mounting Kit (slide kit required)**
310 104 429	Receiver, 9050, 50 Module, Dual Discrete Wiring Tiers, EMI Gasket
ITAS	
410 104 538	ITA, 9050, 50 Module, VXI and Discrete Wiring, Double Tier
410 104 580	ITA, 9050, 50 Module, Double Tier, EMI, with 8" Enclosure
410 104 111	ITA, 9025, 25 Module, Single Tier
ENCLOSURES	
410 112 198	Enclosure, 25 Module, Hinged Cover Plate, 4" Deep
410 112 336	Enclosure, 50 Module, 50 Module 4" Adapter for 25 Module, Hinged Cover
410 112 375	Enclosure, 50 Module, Hinged Cover Plate, 8" Deep
410 112 368	Enclosure, 25 Module, Large
410 112 463	Enclosure, 50 Module, Hinged Cover Plate, 6" Deep
410 112 519	Enclosure, 50 Module, Hinged Cover Plate, 12" Deep
410 112 770	Enclosure, 50 Module, L-Shaped
NOTE: The 25 module enclosures only work with the 25 module ITA	
SLIDE KITS	
310 113 451	28" Slide Kit, Fits 26"-30" Deep Racks, Supports 180 lbs.
310 113 411	30" Slide Kit, Fits 28"-32" Deep Racks, Supports 180 lbs.
310 113 500	36" Slide Kit, Fits 34"-38" Deep Racks, Supports 180 lbs.
ACCESSORIES	
310 113 285	Protective Cover, 9050, VXI and Discrete Wiring, Receiver
410 112 578	Protective Cover, 9025, 9025VXI & 9025TR, ITA
410 112 582	Protective Cover, 9050, VXI and Discrete Wiring, ITA
** With a typical contact load, approximately 35 lbs force is needed to engage the receiver handle. Consult VPC for increased contact load applications.	

9050TR Platform Configuration



- A. ITA Enclosure

B. ITA Patchcords

C. ITA Module

D. ITA Frame
- E. Receiver Module

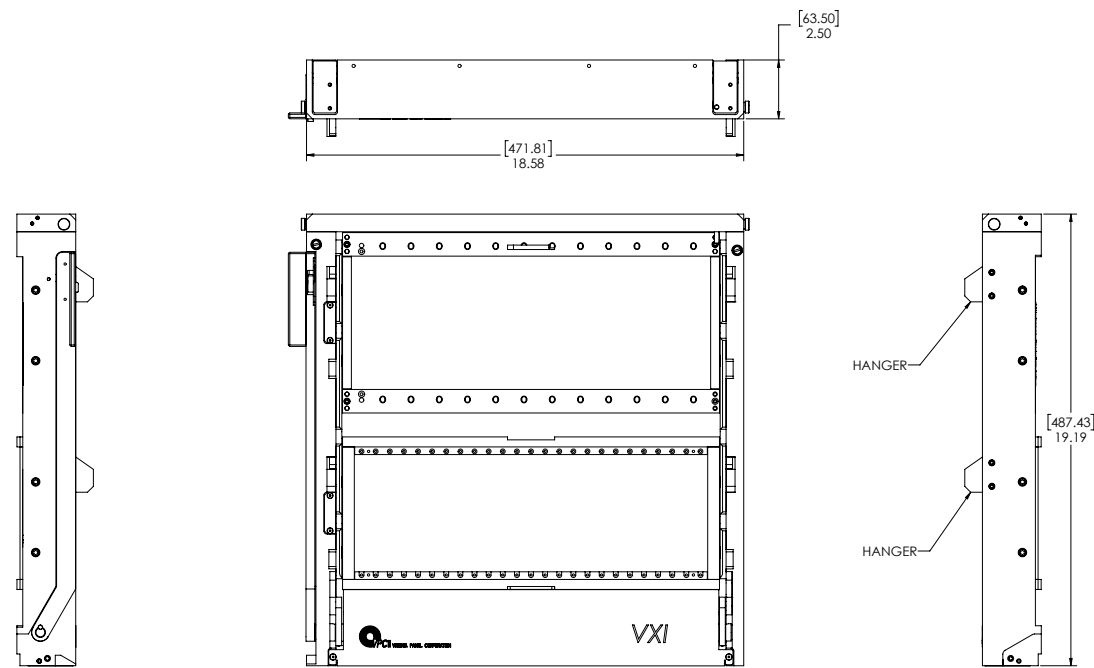
F. Receiver Patchcords

G. PCB Adapter

H. Receiver Frame
- I. Slide Kit

Part #	Description
RECEIVER	
310 104 369	Receiver, 9050TR, 50 Module, with 20" Platform (slide kit required)**
ITAS	
410 104 538	ITA, 9050, 50 Module, VXI and Discrete Wiring, Double Tier
410 104 111	ITA, 9025, 25 Module, Single Tier
ENCLOSURES	
410 112 198	Enclosure, 25 Module, Hinged Cover Plate, 4" Deep
410 112 375	Enclosure, 50 Module, Hinged Cover Plate, 8" Deep
410 112 368	Enclosure, 25 Module, Large
410 112 463	Enclosure, 50 Module, Hinged Cover Plate, 6" Deep
410 112 519	Enclosure, 50 Module, Hinged Cover Plate, 12" Deep
410 112 770	Enclosure, 50 Module, L-Shaped
410 112 823	Enclosure, 25 Module, Hinged Cover Plate
SLIDE KITS	
310 113 451	28" Slide Kit, Fits 26"-30" Deep Racks, Supports 180 lbs.
310 113 411	30" Slide Kit, Fits 28"-32" Deep Racks, Supports 180 lbs.
310 113 500	36" Slide Kit, Fits 34"-38" Deep Racks, Supports 180 lbs.
ACCESSORIES	
310 113 285	Protective Cover, 9050, VXI and Discrete Wiring, Receiver
410 112 578	Protective Cover, 9025, 9025VXI & 9025TR, ITA
410 112 582	Protective Cover, 9050, VXI and Discrete Wiring, ITA
310 113 439	Keyboard Tray Kit, Slide Configuration, Keyboard with Touchpad Mouse Included
310 113 566	Adjustable Leg Kit for the 20" Platform, 27"-36", Supports 350 lbs.
** With a typical contact load, approximately 35 lbs force is needed to engage the receiver handle. Consult VPC for increased contact load applications.	

9050 VXi and Discrete Wiring • 50 Module Solution



Receiver, 9050, 50 Module, VXi and Discrete Wiring, Double Tier • Part # 310 104 248

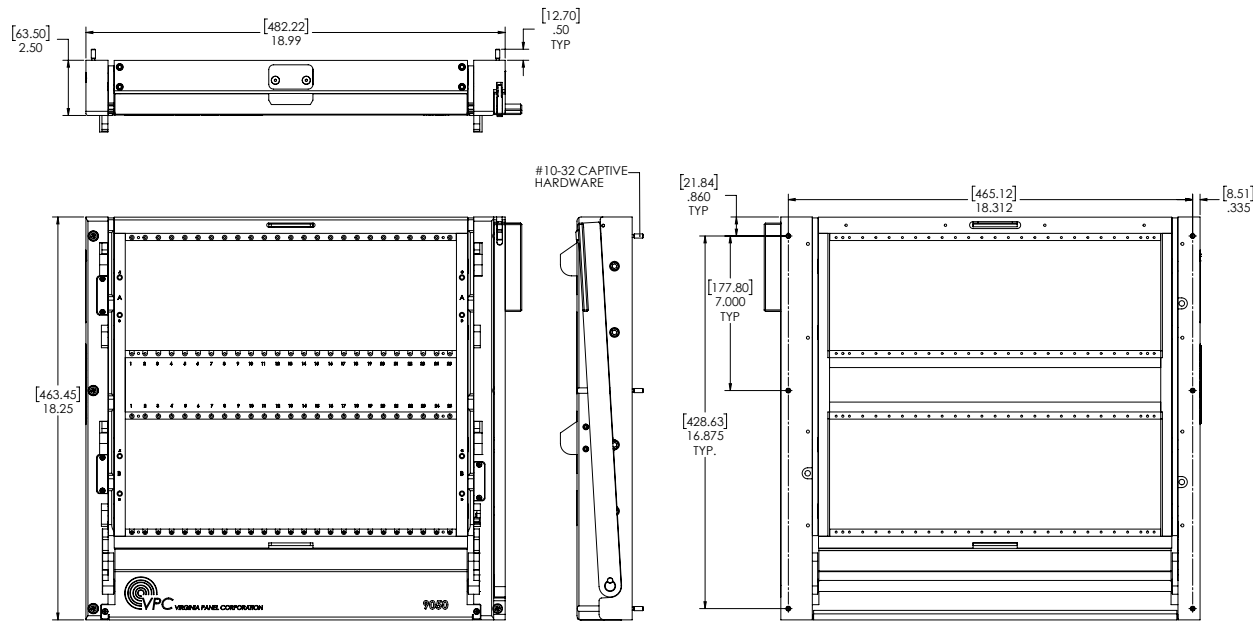
Receiver Specifications

Weight	25 lbs [11.34 kg]
Frame Material	Anodized aluminum
Slide Material	Nickel plated steel
Linkage, Handle, Latch Material	Stainless steel
Available Module Slots	50 psitions
Cycle Life	20,000 cycles
Temperature	-55° C to 85° C
Max. Mating Force	1331 lbs [603.7 kg]
Max. Weight Support	80 lbs @ 12" [36 kg @ 30.5 cm]



The 9050 VXi receiver's op tier accommodates VXi instruments and accepts VPC interconnect adapters. The bottom tier is for discrete wiring.

9050 Dual Discrete Wiring • 50 Module Solution



Receiver, 9050, 50 Module, Dual Discrete Wiring Tiers • Part # 310 104 368

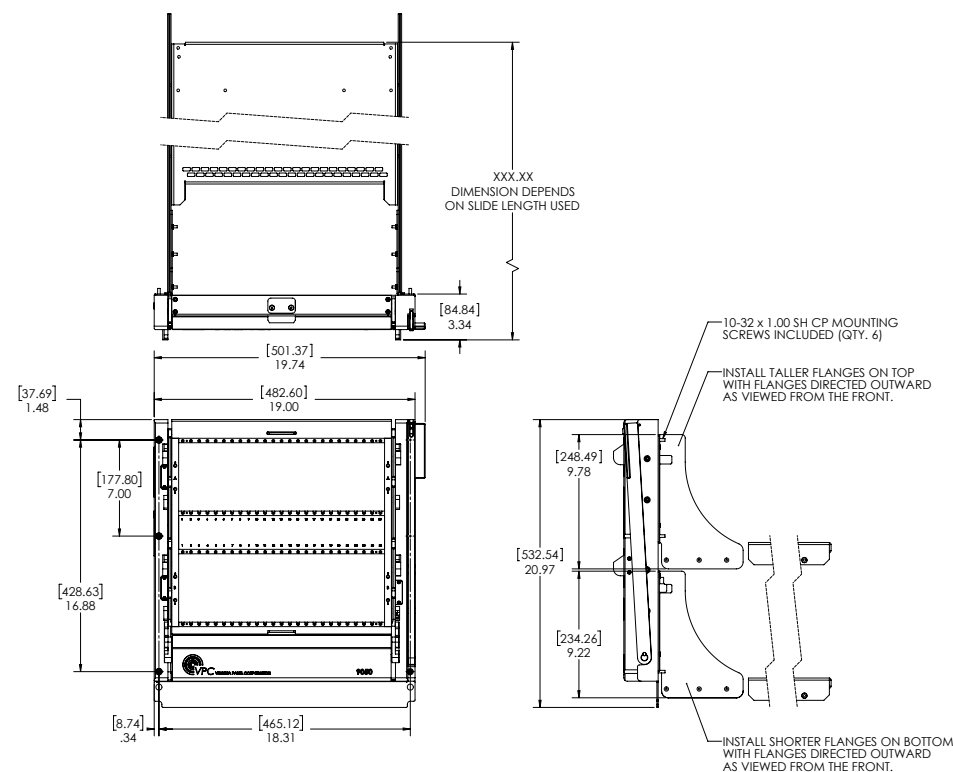
Receiver Specifications

Weight	30.4 lbs [13.79 kg]
Frame Material	Anodized aluminum
Slide Material	Nickel plated steel
Linkage, Handle, Latch Material	Stainless steel
Available Module Slots	50 positions
Cycle Life	20,000 cycles
Temperature	-55° C to 85° C
Max. Mating Force	1870 lbs [848.2 kg]
Max. Weight Support	80 lbs @ 12" [36 kg @ 30.5 cm]



The 9050 receiver is a rugged system devised to accommodate high I/O. With high contact point availability, the 50 module receiver is suited for larger test and measurement systems. Both tiers are designed for discrete wiring and can accommodate individual 9025 ITAs.

9050 Receiver for Slide Mount • 50 Module Solution



Receiver, 9050, 50 Module, with Slide Mounting Kit (slide kit required) • Part # 310 104 402

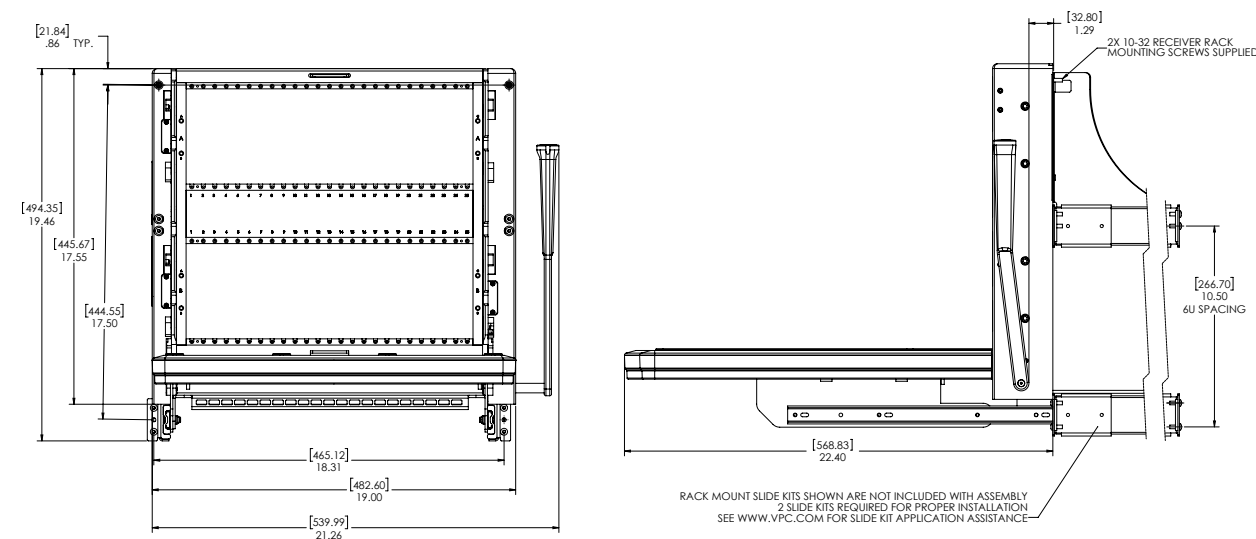
Receiver Specifications

Weight	41.7 lbs [18.9 kg]
Frame Material	Anodized aluminum
Slide Material	Nickel plated steel
Linkage, Handle, Latch Material	Stainless steel
Available Module Slots	50 positions
Cycle Life	20,000 cycles
Temperature	-55° C to 85° C
Max. Mating Force	1870 lbs [848.2 kg]
Max. Weight Support	360 lbs @ 12" [163.3 kg @ 30.5 cm]



The 50 module receiver is a rugged system designed to accommodate high I/O. The 9050 with Slide Mounting Kit enables slide-out access to both chassis and instrumentation. This receiver is designed to work with a slide kit and includes a mounting bracket, flanges and instrument bracket. Two slide kits are required for use.

9050TR Receiver for Slide Mount • 50 Module Solution



Receiver, 9050TR, 50 Module, with 20" Platform (slide kit required) • Part # 310 104 369

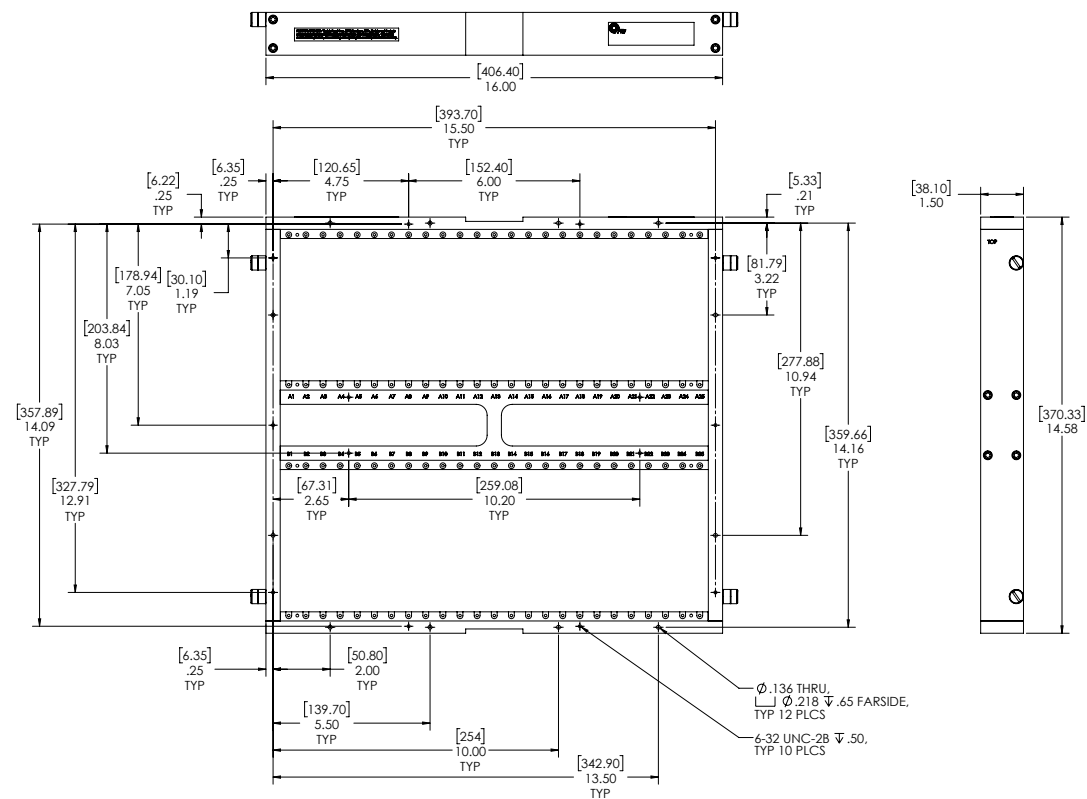


Receiver Specifications

Weight	72 lbs [32.66 kg]
Frame Material	Anodized aluminum
Slide Material	Nickel plated steel
Linkage, Handle, Latch Material	Stainless steel
Available Module Slots	50 positions
Cycle Life	20,000 cycles
Temperature	-55° C to 85° C
Max. Mating Force	1654 lbs [750.2 kg]
Max. Weight Support	360 lbs @ 12" [163.3 kg @ 30.5 cm]

The 50 module platform receiver is designed to fit into a standard 19" rack. It is equipped with a locking handle to ensure your contacts are engaged. A standard integrated microswitch shuts off power when the ITA disengages from the receiver. This receiver is designed to work with a slide kit and includes mounting flanges and instrument bracket, Part # 310 113 507. Two slide kits are required for use.

9050 VXI ITA • 50 Module Solution



ITA, 9050, 50 Module, VXI and Discrete Wiring, Double Tier • **Part # 410 104 538**

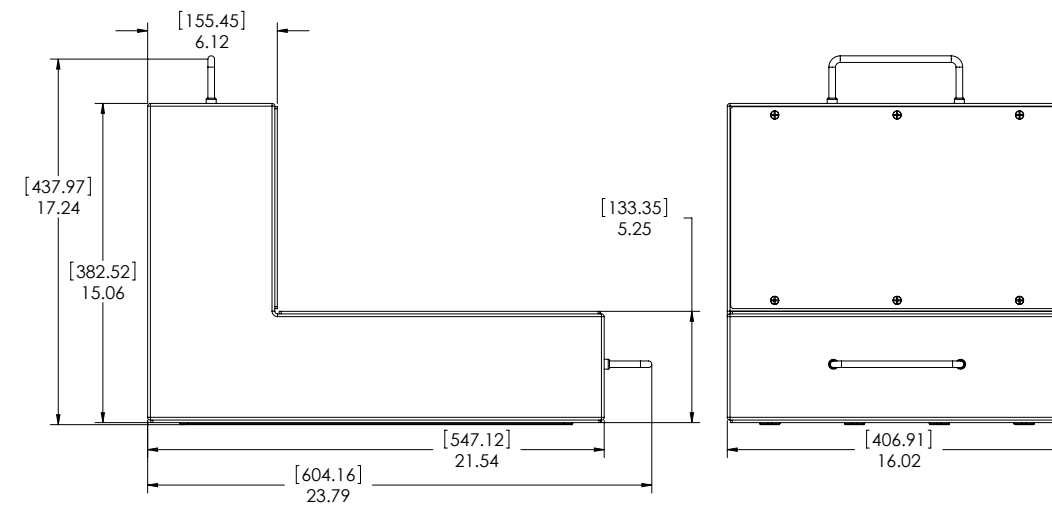


ITA Specifications

Weight	8.25 lbs [3.74 kg]
Frame Material	Chromated aluminum
Available Module Slots	50 positions
Cycle Life	20,000 cycles
Max. Mating Force	2133 lbs [967.5 kg]
Temperature	-55° C to 85° C

The 50 module ITA can be used in a number of applications to accomplish the required connection to the unit under test (UUT). You can mount a VPC front or rear mount enclosure or customize your own fixture to be attached to the ITA frame. A wide range of ITA modules are available separately for user configuration.

9050 VXI • Accessories



The L-Shaped Enclosure provides significant area for external I/O devices. The three access panels (front, top, and bottom) are removable covers with ¼ turn fasteners. With the use of adapter plates, it can be used with 9050 and 9025 ITAs.

Enclosure, 50 Module, L-Shaped • **Part # 410 112 770**



When the receiver is not in use, the protective cover is used to protect the modules and contacts. The protective cover is made up of black anodized aluminum.

Protective Cover, 9050, VXI and Discrete Wiring Receiver • **Part # 310 113 285**



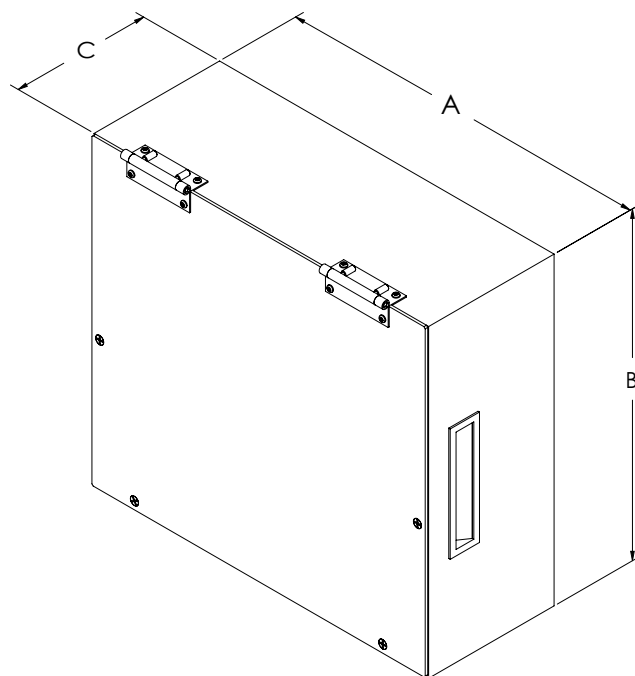
The aluminum ITA protective cover protects contacts and modules when the ITA is not in use.

Protective Cover, 9050, VXI and Discrete Wiring, ITA • **Part # 410 112 582**

9050 ITA Enclosures

Enclosures for 50 module ITA are made of aluminum and painted black. The top of the enclosure has a hinged cover plate with ¼ turn hardware that provides easy access to the ITAs wiring when required. The 9050 ITA can accept both front and rear mount enclosures.

All cover plates are black anodized. Screws for mounting the enclosures to the ITA are included. Handles are provided for easy removal of the TPS hardware from the receiver, except where noted.



Part #	Description	A	B	C
410 112 463	Enclosure, 50 Module, Hinged Cover Plate, 6" Deep	16.00 [406.4]	14.57 [370.1]	6.12 [155.45]
410 112 519	Enclosure, 50 Module, Hinged Cover Plate, 12" Deep	16.00 [406.4]	14.57 [370.1]	12.00 [208.8]

9025 and 9050 ITA Enclosures



Front Mount ITA to Standard Enclosure

Standard Enclosures

VPC offers a variety of standard enclosures for discrete-wiring needs. VPC's enclosures range from the low I/O ITAs such as the G2 and G6 to the high I/O systems such as the 9050. Several of VPC's receiver systems offer multiple standard enclosures to meet varying test requirements. Larger enclosures come with standard hinged cover plates to enable easy access to wiring.

Custom Enclosures

VPC's highly reliable ITAs mount directly to an enclosure to house your test fixturing. This enclosure can be customized to fit your application requirements. VPC offers custom cut-outs for accommodating your secondary connectors and custom silk screening and engraving to guarantee quick and fail-safe identification of your test lines. Hinged or removable covers can be added to any side of your enclosure to provide quick and easy access.

Custom cutouts
Custom silk screening
Installation of components



Hinges mounted on top, bottom, left or right

Standard Enclosure with Custom Cutouts



Custom Enclosure with Custom Cutouts

Different manufacturing methods are available for creating your quality enclosure. VPC offers enclosures in both deep drawn and sheet metal sides that can be welded together. We can manufacture your enclosure with removable side panels and mounting hardware. We can also wire the enclosure to your specifications.

Many enclosure accessories are available, such as protective covers that prevent damage to your pins, and adapter plates for making your solution scalable.

Platform Mount Slide Kit Accessories



The keyboard tray kit with touchpad mouse connects to the computer's USB port.



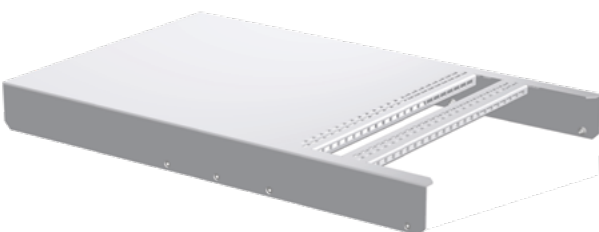
The universal edge card adapter kit's card guides are hinged and can be folded for storage by releasing the holding latches on either side of the card.

Keyboard Tray Kit • **Part # 310 113 439**

Edge Card Adapter, Universal, For .062 PCB
Part # 111 107 138
Edge Card Adapter, Universal, For .093 PCB
Part # 111 107 148



The adjustable leg kit is designed to alleviate added weight from your enclosure by giving the platform extra support. The leg kit works with all 20" platform solutions.



The instrument bracket works only with the platform slide configuration. It is used to mount the testing instrument to the slides. The brackets allow the test instruments to slide out for maintenance access and have a strain relief area in the front of the bracket to tie down wires and cables.

Adjustable Leg Kit for the 20" Platform, 27"-36", Supports 350 lbs. • **Part # 310 113 566**

Instrument Bracket Kit with Strain Relief, for Slide Configuration, for 28" or longer slides only • **Part # 310 113 453**



Measure rack depth between mounting rails to determine the slide mounting kit that fits the rack. A rack extender kit is available for mounting to racks with recessed rails.

20" Slide Kit, Fits 18"-22" deep racks, Supports 180 lbs • **Part # 310 113 409**
24" Slide Kit, Fits 22"-26" deep racks, Supports 180 lbs • **Part # 310 113 410**
28" Slide Kit, Fits 26"-30" deep racks, Supports 180 lbs • **Part # 310 113 451**
30" Slide Kit, Fits 28"-32" deep racks, Supports 180 lbs • **Part # 310 113 411**
36" Slide Kit, Fits 34"-38" deep racks, Supports 180 lbs • **Part # 310 113 500**

Accessory Kits

See Cross Reference charts for module screw sizes to determine which accessory kit contains the needed module screw.



Part #	Description	Module Used in
910 121 174	Allen Wrench Kit, Contains $\frac{3}{32}$, $\frac{7}{64}$, and $\frac{5}{32}$	
510 109 299	Module Accessory Master Kit with Allen Wrenches (contains all kits listed below)	
910 121 172	Module Accessory Kit Quantity 5, $\frac{3}{32}$ Allen Wrenches	
510 109 300*	Module Accessory Kit Quantity 39, 0-80 X .25" Screws	510 104 120/123/267/270
510 109 301	Module Accessory Kit Quantity 26, 4-40 X .375" Screws	510 104 118 510 108 104
510 109 302	Module Accessory Kit Quantity 26, 4-40 X .625" Screws	510 108 169/179 510 104 209/224 510 108 144/160 510 104 109/128/134/135 510 104 136/139/149/185 510 151 104/105/106/107/108 510 151 121/124
510 109 303	Module Accessory Kit Quantity 26, 4-40 X .56" Screws	510 104 102/120/123/150/155 510 104 267/270 510 108 101/102/111/112/115 510 108 124/125/126/131/132/138 510 108 140/148 510 108 262/263
510 109 305*	Module Accessory Kit Quantity 26, 2-56 X .187" Screws	510 104 128/133/134/135/136/139/261
510 109 306*	Module Accessory Kit Quantity 26, 2-56 X .375" Screws	510 104 139/149 510 108 148
510 109 307*	Module Accessory Kit Quantity 26, 2-56 X .25" Screws	510 104 206/243/249
510 109 359	Module Accessory Kit Quantity 26, 4-40 X .75" Screws	510 150 115/116 510 150 130/131/135/136/137 510 150 147

* These screws are used to assemble the top and bottom half of a module.

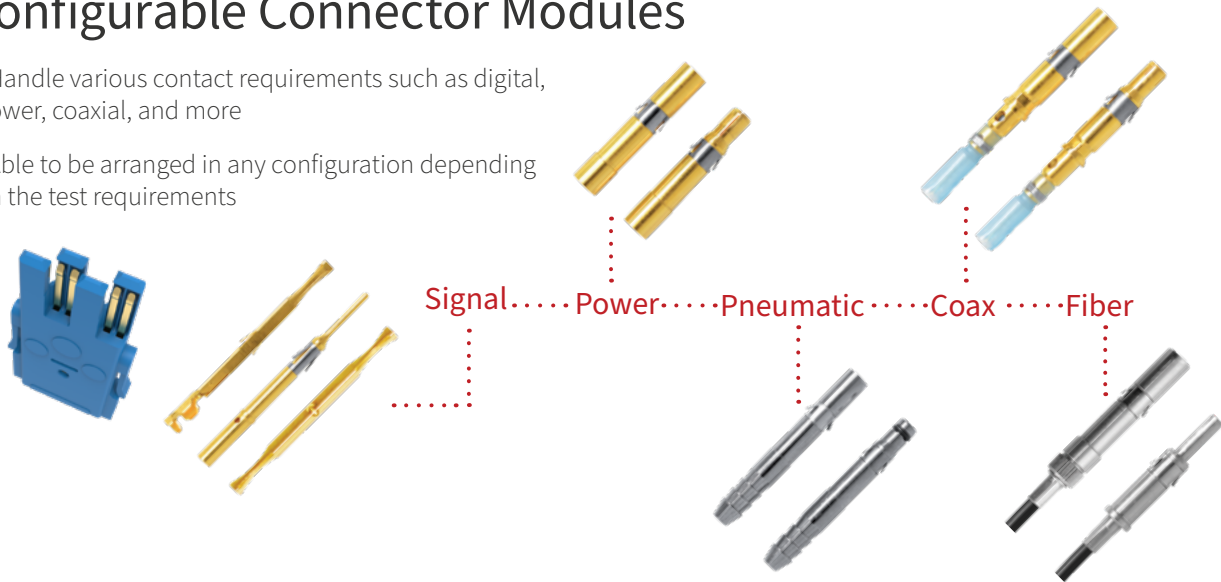
Complete the Package

Contacts, Modules, Patchcords & Tools



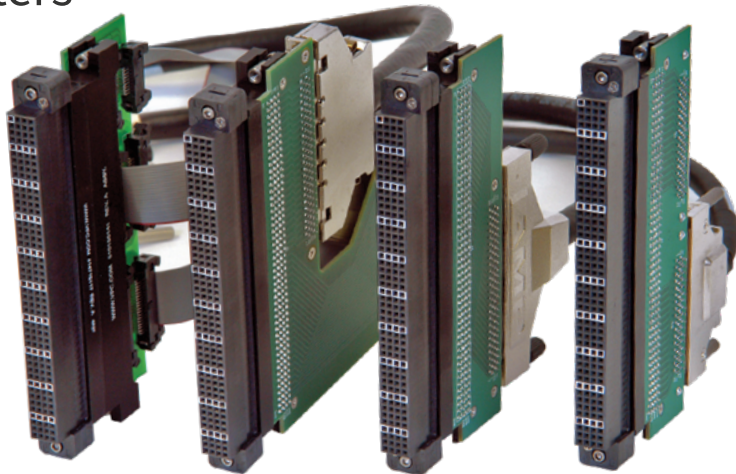
Reconfigurable Connector Modules

- Handle various contact requirements such as digital, power, coaxial, and more
- Able to be arranged in any configuration depending on the test requirements



Easy Integration with PCB Adapters

- Enables ease of integration while providing wiring convenience in a cost-effective package
- Incorporates a PCB with multiple standard connectors
- Offers “plug and play” capability between module and instrumentation



Fewer Complications with Patchcords

- Patchcords are available in various lengths to suit any application
- Cost-effective solution for your wiring needs
- Reduced setup time with pre-built patchcords



Variety of Connection Options

- Configurable for virtually any connection requirement
- Reliable connections maintain signal integrity
- Most contacts are rated to 20,000 mating cycles

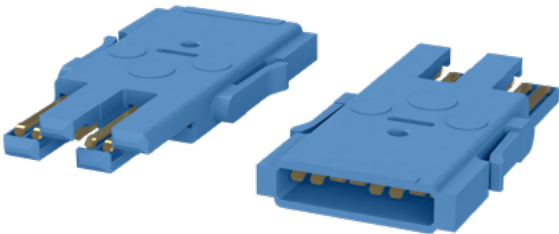
Complete Tool Selection

- Crimp tools and locators are available to easily terminate contacts and wires
- Extraction tools are available to remove contacts from the module quickly when necessary, saving time
- Inspection tools are available to ensure proper function before system integration

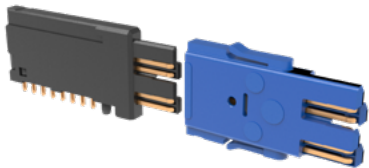


VTAC Insert

Contact Specifications	
Data Rate	12.5+ Gbps per differential pair
Crosstalk	30 dB min
Characteristic Impedance	100+/- 10 Ω - differential pair 50+/- 5 Ω - single ended
Operating Voltage and Current	3 amps max. continuous (350 volts max.)
Contact Resistance	40 mΩ max. per mated contact
Insulation Resistance	1000 MΩ min.
Dielectric withstanding Voltage	1050 VDC RMS min.
Mating Force	12 oz max. [340 g] per insert
Insert	Outer shell: blue LCP Male contact: alloy 7025
Contact Plating	50 μ" Au over 100 μ" Ni
Mating Cycles	20,000



Receiver/ITA Insert
Part # 610 151 103



SIM VTAC Right Angle Kit
(Receiver/ITA)
Part # 610 151 106

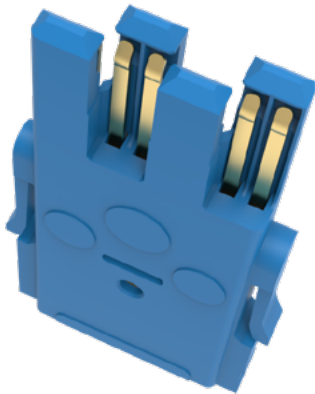
VTAC RIGHT ANGLE

The Part # 610 151 103 (image above) insert allows custom designed PCBs to have SIM VTAC HSD inserts attached. Sold in individual quantities. Compatible with Part # 610 151 104 and available in a set as Part # 610 151 106 (image to left).

Part #	Description	Used in Module
VTAC INSERT 610 151 103	High Speed Insert, Receiver/ITA, SIM, 50μ", VTAC HSD, Double Ended Insert (For Use with Right Angle Only)	510 170 101/ 510 171 101 510 143 001/ 510 144 001
610 151 104 610 151 105	High Speed Insert, Receiver/ITA, SIM, 50μ", VTAC HSD, Right Angle Insert High Speed Insert, Receiver/ITA, SIM, 50μ", VTAC HSD, Retention Insert (For Use with Right Angle only)	510 170 101/ 510 171 101 510 143 001/ 510 144 001
610 151 106	High Speed Insert, Receiver/ITA, SIM, 50μ", VTAC HSD Kit (For Use with Right Angle Only)	510 170 101/ 510 171 101 510 143 001/ 510 144 001
EXTRACTION TOOLS 910 112 130	Extraction Tool, SIM, Receiver and ITA	

VTAC Insert

Contact Specifications	
Data Rate	12.5+ Gbps per differential pair
Crosstalk	30 dB min
Characteristic Impedance	100+/- 10 Ω - differential pair 50+/- 5 Ω - single ended
Operating Voltage and Current	3 amps max. continuous (350 volts max.)
Contact Resistance	40 mΩ max. per mated contact
Insulation Resistance	1000 MΩ min.
Dielectric withstanding Voltage	1050 VDC RMS min.
Mating Force	12 oz max. [340 g] per insert
Insert	Outer shell: black LCP Male contact: alloy 7025
Contact Termination	Welded
Contact Plating	50 μ" Au over 100 μ" Ni
Mating Cycles	20,000



Receiver/ITA Contact

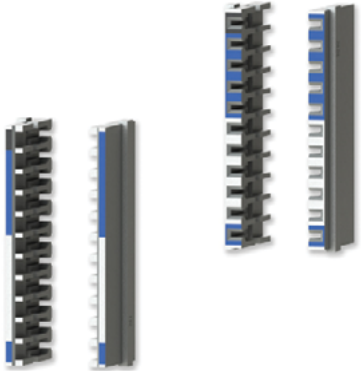
Receiver/ITA Insert • Part # 610 151 101

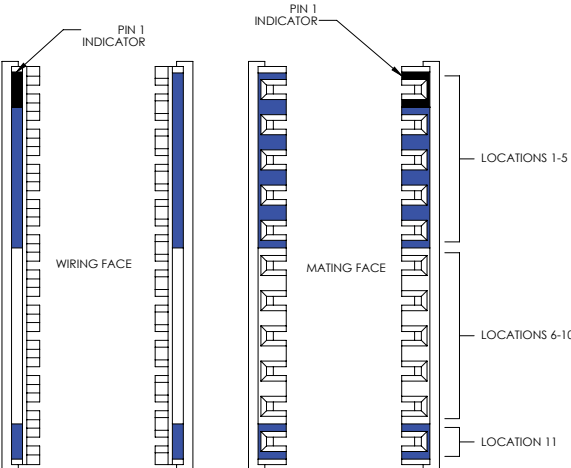
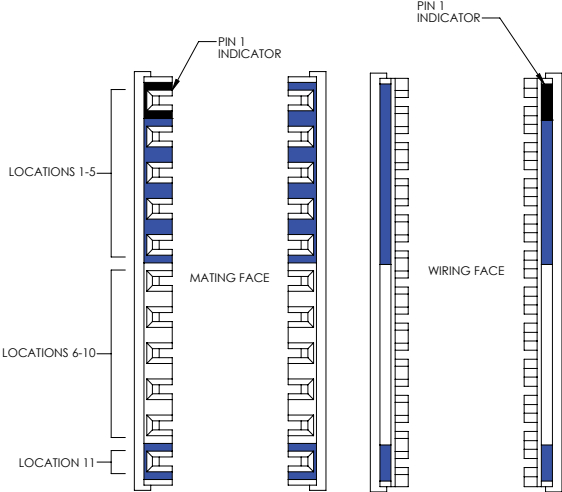
Part #	Description
VTAC PATCHCORDS - RECEIVER	
7-142702731-0XX	Signal Patchcord, Receiver, SIM VTAC HSD, Rosenberger HSD Plug, 1 Position
7-142877655-036	Signal Patchcord, Receiver, SIM VTAC HSD, 36", DVI-D Male Dual Link, 5 Position
7-142890690-0XX	Signal Patchcord, Receiver, SIM VTAC HSD, USB 3.0 Type A Male, 2 Position
7-142890691-0XX	Signal Patchcord, Receiver, SIM VTAC HSD, USB 3.0 Type A Female, 2 Position
7-142890692-0XX	Signal Patchcord, Receiver, SIM VTAC HSD, USB 3.0 Type B Male, 2 Position
7-142891693-0XX	Signal Patchcord, Receiver, SIM VTAC HSD, HDMI Male, 3 Position
7-142892700-0XX	Signal Patchcord, Receiver, SIM VTAC HSD, SATA Male, 1 Position
7-142893694-0XX	Signal Patchcord, Receiver, SIM VTAC HSD, RJ45 Plug, 2 Position
7-142861000-0XX	Signal Patchcord, Receiver, SIM VTAC HSD, Twinax Flying Leads, 1 Position
7-142895000-0XX	Signal Patchcord, Receiver, SIM VTAC HSD, 24 AWG, Flying Leads, 1 Position
7-142896722-0XX	Signal Patchcord, Receiver, SIM VTAC HSD, Mini-SAS HD Plug, 4 Position
VTAC PATCHCORDS - ITA	
7-141702731-0XX	Signal Patchcord, ITA, SIM VTAC HSD, Rosenberger HSD Plug, 1 Position
7-142877655-036	Signal Patchcord, Receiver, SIM VTAC HSD, 36", DVI-D Male Dual Link, 5 Position
7-141890690-0XX	Signal Patchcord, ITA, SIM VTAC HSD, USB 3.0 Type A Male, 2 Position
7-141890691-0XX	Signal Patchcord, ITA, SIM VTAC HSD, USB 3.0 Type A Female, 2 Position
7-141890692-0XX	Signal Patchcord, ITA, SIM VTAC HSD, USB 3.0 Type B Male, 2 Position
7-141891693-0XX	Signal Patchcord, ITA, SIM VTAC HSD, HDMI Male, 3 Position
7-141892700-0XX	Signal Patchcord, ITA, SIM VTAC HSD, SATA Male, 1 Position
7-141893694-0XX	Signal Patchcord, ITA, SIM VTAC HSD, RJ45 Plug, 2 Position
7-141861000-0XX	Signal Patchcord, ITA, SIM VTAC HSD, Twinax Flying Leads, 1 Position
7-141895000-0XX	Signal Patchcord, ITA, SIM VTAC HSD, 24 AWG, Flying Leads, 1 Position
7-141896722-0XX	Signal Patchcord, ITA, SIM VTAC HSD, Mini-SAS HD Plug, 4 Position

SIM Module • i2 MX Insert

Specifications

Material	Nickel plated zinc
Operating Temperature	-40°C to 125°C
Available Insert Positions	11
Module Positions Needed	1





Receiver • **Part # 510 143 001**

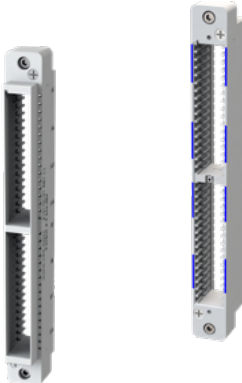
ITA • **Part # 510 144 001**

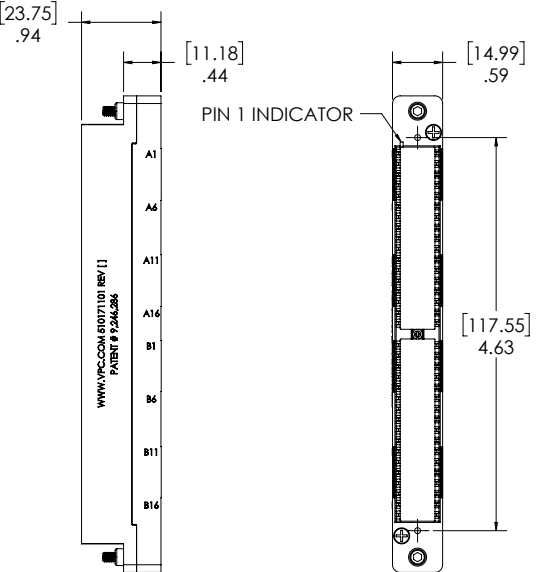
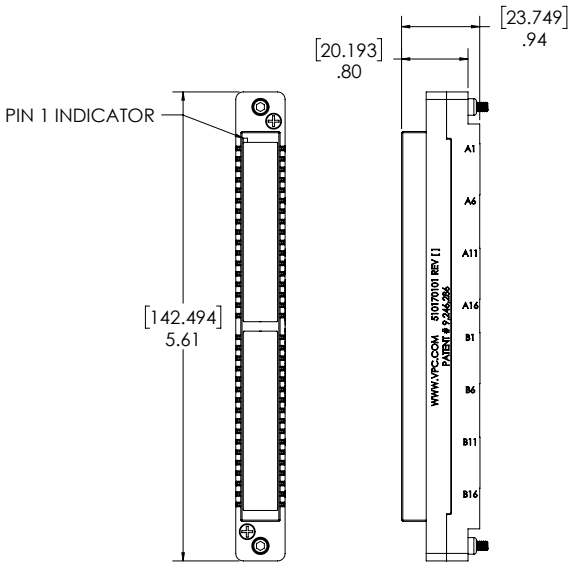
Part #	Description	Contacts Used
I2 MX RECEIVER SIM MODULE INSERT 510 143 001	SIM Module Insert, Receiver, i2 MX, 11 Position	610 151 101 610 151 103 510 180 101
I2 MX ITA SIM MODULE INSERT 510 144 001	SIM Module Insert, ITA, i2 MX, 11 Position	610 151 101 610 151 103 510 181 101

SIM Module • 90 Series Insert

Specifications

Material	Nickel plated zinc
Operating Temperature	-40°C to 125°C
Available Insert Positions	34
Module Positions Needed	1





Receiver • **Part # 510 170 101**

ITA • **Part # 510 171 101**

Part #	Description	ContactsUsed
MODULE - RECEIVER 510 170 101	SIM Module, Receiver, 34 Position	610 151 101 610 151 103 510 180 101
MODULE - ITA 510 171 101	SIM Module, ITA, 34 Position	610 151 101 610 151103 510 181 101

QuadraPaddle Signal Contacts

Contact Specifications

Operating Current and Voltage	5 amp max. continuous; 600 volt max. use of wire Mil-W-16878/4
Contact Resistance	25 mΩ max. Measured at 50 mV @ 100 mA
Mating Force	6 oz. nominal [.15 kg]
Dielectric Withstanding Voltage (DWV)	1500 VDC min.
Insulation Resistance	5000 MΩ min.
Contact Body Material	Twin Female (RCV) – BeCu/PhBrz Crimp (RCV) – BeCu Male (ITA) – Brass
Contact Plating	Female (RCV) – 30μ" Au over 100μ" Ni Male (ITA) – 30μ" Au over 100μ" Ni
Cycle Life	20,000 cycles

Receiver Contact
Part # 610 138 216

ITA Contact
Part # 610 138 109

ITA Contact
Part # 610 138 122

ITA Contact
Part # 610 138 112

ITA Contact
Part # 610 138 115

QuadraPaddle Contact
28 AWG & 22 AWG
T-Rise Test

Δ T 22 AWG
Δ T 28 AWG
30°C

Maximum current rating for 28 AWG wire is 1.4 amperes

QuadraPaddle Signal Contacts

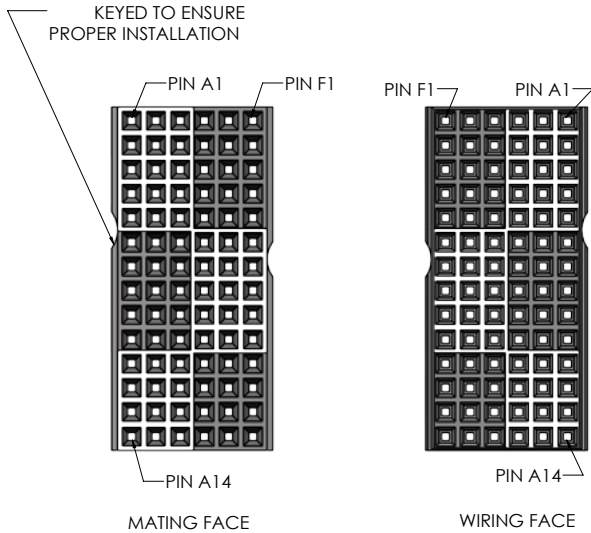
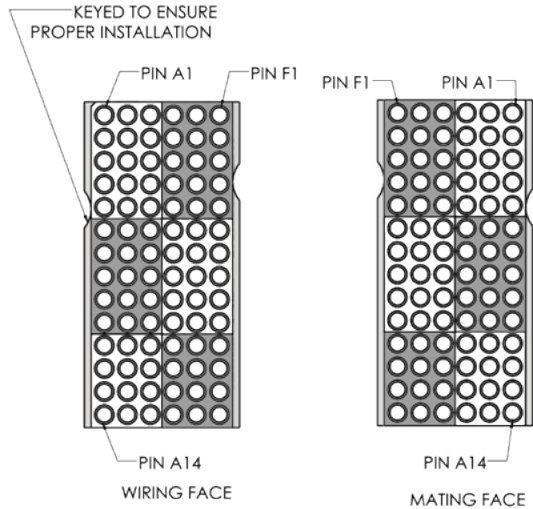
Receiver Contact Part # 610 138 200	Round Post Receiver Contact Part # 610 138 117	Square Post Receiver Contact Part # 610 138 118
QuadraPaddle round and square post adapter pins convert QuadraPaddle twin female pins to female-male contacts		
Part #	Description	Used in Module
QUADRAPADDLE RECEIVER CONTACTS		
610 138 200*	Signal Contact, Receiver, QuadraPaddle, 5 Amp, 30μ" Gold, Twin Female Replacement Contact	510 150 130/131/135 510 150 136/137/147 510 160 105/112/122
610 138 117*	Signal Contact, Receiver, QuadraPaddle, 5 Amp, Male Adapter, .025" Round Post	510 150 130/131/135/137 510 160 105/112/113
610 138 118*	Signal Contact, Receiver, QuadraPaddle, 5 Amp, Male Adapter, .025" Square Post for Wire Wrap	510 150 130/131/136/147 510 160 105/112
610 138 216	Signal Contact, Receiver, QuadraPaddle, 5 Amp, 22-28 AWG, 30μ" Gold	510 150 115/116 510 160 101/102/107
QUADRAPADDLE ITA CONTACTS		
610 138 109	Signal Contact, QuadraPaddle, ITA, 5 Amp, 22–24 AWG	510 151 105/106 510 161 101/102/107
610 138 112	Signal Contact, ITA, QuadraPaddle, 5 Amp, 26–30 AWG	510 151 105/106 510 161 101/102/107
610 138 115	Signal Contact, ITA, QuadraPaddle, 5 Amp, .025" Round Post	510 151 105/106/107/108 510 161 101/102/107
610 138 122	Signal Contact, ITA, QuadraPaddle, 5 Amp, .025" Square Post for Wire Wrap with Anti-Rotation	510 151 105/106/107/124 510 161 101/102/107
Part #	Description	Used on Contact
CRIMP TOOLS		
910 101 125	Tool, Crimp, QuadraPaddle, Receiver	610 138 216
910 101 103	Tool, Crimp, QuadraPaddle ITA and TriPaddle Receiver and ITA Contacts, Locator Required	610 138 109/112 610 110 101/108/109/167/169
LOCATOR		
910 104 140	Tool, Locator, QuadraPaddle, ITA Contact	610 138 109/112
EXTRACTION TOOLS		
910 110 111	Tool, Extraction, ITA, QuadraPaddle	610 138 109/112/115/122
910 110 112	Tool, Extraction, Receiver, QuadraPaddle	610 138 216
INSERTION TOOL		
910 113 106	Tool, Insertion, QuadraPaddle ITA Wire Wrap Contact	610 138 122

QuadraPaddle Signal Patchcords



QuadraPaddle Receiver Patchcord		QuadraPaddle ITA Patchcord	
Part #	Description	Used in Module	
QUADRAPADDLE RECEIVER AND ITA PATCHCORDS			
7-124 924 000-036	Signal Patchcord, Receiver, QuadraPaddle, 5 Amp, 36", 24 AWG, Single Ended	510 150 115/116 510 160 101/102/107	
7-124 922 000-036	Signal Patchcord, Receiver, QuadraPaddle, 5 Amp, 36", 22 AWG, Single Ended	510 150 115/116 510 160 101/102/107	
7-121 924 000-036	Signal Patchcord, ITA, QuadraPaddle, 5 Amp, 36", 24 AWG, Single Ended	510 151 105/106 510 161 101/102/107	
7-121 922 000-036	Signal Patchcord, ITA, QuadraPaddle, 5 Amp, 36", 22 AWG, Single Ended	510 151 105/106 510 161 101/102/107	
QUADRAPADDLE ITA JUMPERS			
7-121 924 121-006	Signal Patchcord, ITA, QuadraPaddle, 5 Amp, 6", 24 AWG, Double Ended Jumpers	510 151 105/106 510 161 101/102/107	
7-121 922 121-006	Signal Patchcord, ITA, QuadraPaddle, 5 Amp, 6", 22 AWG, Double Ended Jumpers	510 151 105/106 510 161 101/102/107	
			
QuadraPaddle Receiver Twisted Pair Patchcord		QuadraPaddle ITA Twisted Pair Patchcord	
Part #	Description	Used in Module	
QUADRAPADDLE RECEIVER AND ITA TWISTED PAIR PATCHCORDS			
7-124 424 000-036	Signal Patchcord, Receiver, QuadraPaddle, 36", 24 AWG Twisted Pair, Single Ended	510 150 115/116 510 160 101/102/107	
7-124 422 000-036	Signal Patchcord, Receiver, QuadraPaddle, 5 Amp, 36", 22 AWG Twisted Pair, Single Ended	510 150 115/116 510 160 101/102/107	
7-121 424 000-036	Signal Patchcord, ITA, QuadraPaddle, 36", 5 Amp, 24 AWG Twisted Pair, Single Ended	510 151 105/106 510 161 101/102/107	
7-123 426 000-036	Signal Patchcord, ITA, QuadraPaddle, 36", 26 AWG Twisted Pair, Single Ended		
7-121 422 000-036	Signal Patchcord, ITA, QuadraPaddle, 36", 22 AWG Twisted Pair, Single Ended	510 151 105/106 510 161 101/102/107	
QUADRAPADDLE ITA TWISTED PAIR JUMPERS			
7-121 424 121-006	Signal Patchcord, ITA, QuadraPaddle, 6", 24 AWG Twisted Pair, Double Ended Jumpers	510 151 105/10 510 161 101/102/107	
7-121 422 121-006	Signal Patchcord, ITA, QuadraPaddle, 6", 22 AWG Twisted Pair, Double Ended Jumpers	510 151 105/106 510 161 101/102/107	
USB PATCHCORDS			
7-124 872 596-036	Signal Patchcord, Receiver, QuadraPaddle, 36", USB 2.0 Wire, to USB Type A Plug		
7-121 872 596-036	Signal Patchcord, ITA, QuadraPaddle, 36", USB 2.0 Wire, to USB Type A Plug		
RJ45 PATCHCORDS			
7-124 870 595-036	Signal Patchcord, Receiver, QuadraPaddle, 36", CAT5e, to RJ45 Plug		
7-123 870 595-036	Signal Patchcord, ITA, QuadraPaddle, 36", CAT5e, to RJ45 Plug		

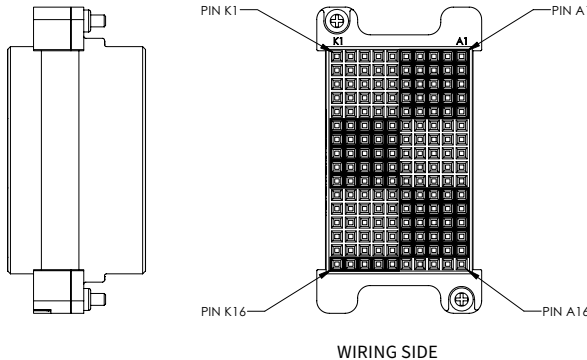
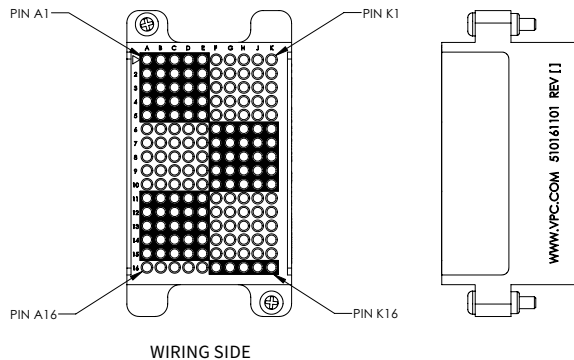
QuadraPaddle Module • i2 MX Inserts

Specifications			
Material	Black high-temp thermoplastic		
Operating Temperature	-40°C to 125°C		
Dielectric Withstanding Voltage (DWV)	1500 VDC Min.		
Available Contact Positions	84		
Module Positions Needed	1		
			
Receiver • Part # 510 143 002		ITA • Part # 510 144 002	
Part #	Description	Contacts Used	
I2 MX RECEIVER QUADRAPADDLE MODULE INSERTS			
510 143 002	QuadraPaddle Signal, Module Insert, Receiver, i2 MX, 84 Position, Crimp	610 138 216	
510 143 003	QuadraPaddle Signal, Module Insert, Receiver, i2 MX, 84 Position, Fully Loaded with Twin Female Contacts (610 138 200)	610 138 200	
I2 MX ITA QUADRAPADDLE MODULE INSERT			
510 144 002	QuadraPaddle Signal, Module Insert, ITA, i2 MX, 84 Position, Crimp	610 138 109 610 138 112 610 138 115 610 138 122	

QuadraPaddle Module • iCon Insert

Module Specifications	
Material	Black high-temp thermoplastic
Temperature	Operating • -55°C to 125°C Non-operating • -65°C to 220°C
Dielectric Withstanding Voltage (DWV)	1500 VDC min.
Available Contact Positions	160
Module Positions Needed	1



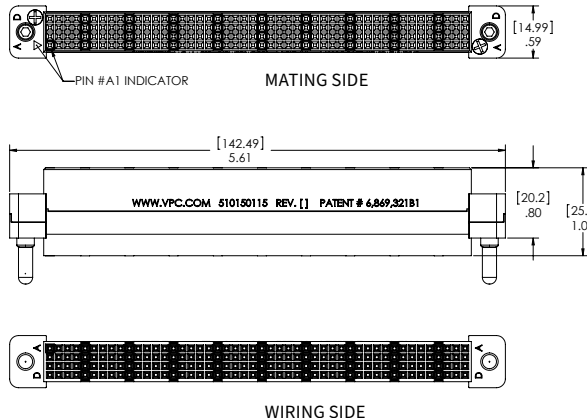
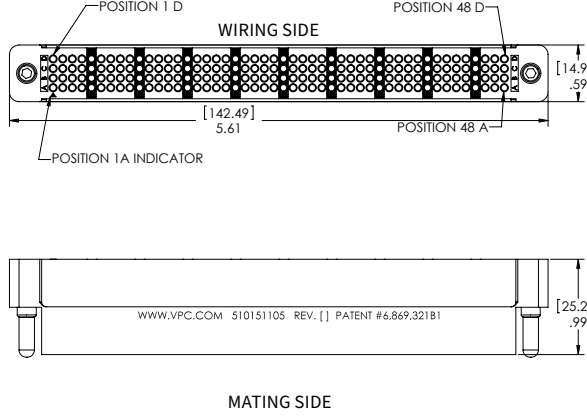
 WIRING SIDE	 WIRING SIDE	
Receiver • Part # 510 160 101		ITA • Part # 510 161 101

Part #	Description	Contacts Used
ICON RECEIVER QUADRAPADDLE MODULES		
510 160 101	Signal Module, Receiver, QuadraPaddle, iCon, 160 Position, for Crimp Contacts	610 138 216
510 160 105	Signal Module, Receiver, QuadraPaddle, iCon, 160 Position, Fully Loaded with Twin Female Contacts (610 138 200)	610 138 117/118/200
510 160 122	Signal Module, Receiver, QuadraPaddle, iCon, 160 Position, Fully Loaded with Twin Female Contacts and Round Posts (610 138 200 and 610 138 117)	610 138 117/200
ICON ITA QUADRAPADDLE MODULE		
510 161 101	Signal Module, ITA, QuadraPaddle, iCon, 160 Position	610 138 109/112/115/122

QuadraPaddle Modules • 90 Series Insert

Module Specifications	
Material	Black liquid crystal polymer
Temperature	Operating • -55° C to 125° C Non-operating • -65° C to 225°C
Dielectric Withstanding Volt- age (DWV)	1500 VDC min.
Available Contact Positions	192
Module Positions Needed	1

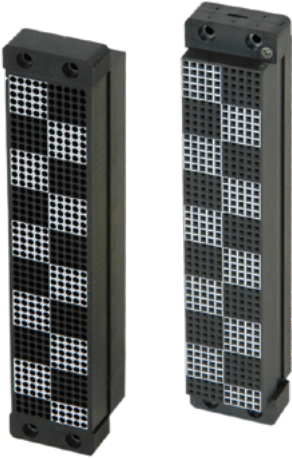


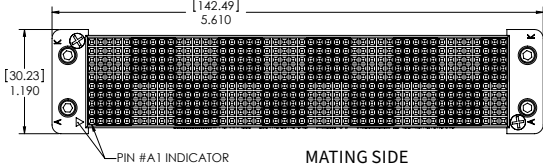
 WIRING SIDE	 WIRING SIDE		
Receiver • Part # 510 150 115		ITA • Part # 510 151 105	

Part #	Description	Contacts Used
90 SERIES RECEIVER MODULES AND STRAIN RELIEFS		
510 150 130	Signal Module, Receiver, QuadraPaddle, 192 Position, Fully Loaded with Twin Female Contacts (610 138 200)	610 138 117/118/200
510 150 115	Signal Module, Receiver, QuadraPaddle, 192 Position, Wire Crimp, Unloaded	610 138 216
510 150 136	Signal Module, Receiver, QuadraPaddle, 192 Position, Fully Loaded with Twin Female Contacts and Square Posts for Wire Wrap (610 138 200 and 610 138 118)	610 138 118/200
510 150 137	Signal Module, Receiver, QuadraPaddle, 192 Position, Fully Loaded with Twin Female Contacts and Round Posts (610 138 200 and 610 138 117)	610 138 117/200
510 109 349	Strain Relief Plate for QuadraPaddle 192 Position Modules	
90 SERIES ITA MODULES AND STRAIN RELIEFS		
510 151 105	Signal Module, ITA, QuadraPaddle, 192 Position, Unloaded	610 138 109/112/115/122
510 151 107	Signal Module, ITA, QuadraPaddle, 192 Position, Fully Loaded with Round Posts (610 138 115)	
510 151 124	Signal Module, ITA, QuadraPaddle, 192 Position, Fully Loaded with Square Posts for Wire Wrap with Anti-Rotation (610 138 122)	610 138 122
510 109 296	Strain Relief Plate for ITA Modules	

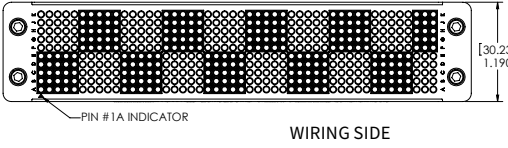
QuadraPaddle Modules • 90 Series Insert

Module Specifications		
Receiver Material	Black liquid crystal polymer	
Receiver Temperature	Operating • -55° C to 125° C Non-operating • -65° C to 225° C	
ITA Material	Black PPS	
ITA Temperature	Operating • -55° C to 125° C Non-operating • -65° C to 220° C	
Dielectric Withstanding Voltage (DWV)	1500 VDC min.	
Available Contact Positions	480	
Module Positions Needed	2	

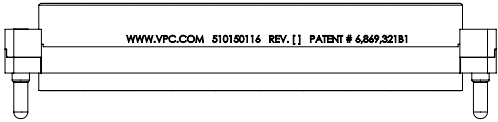




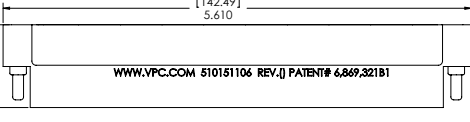
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WIRING SIDE



WIRING SIDE



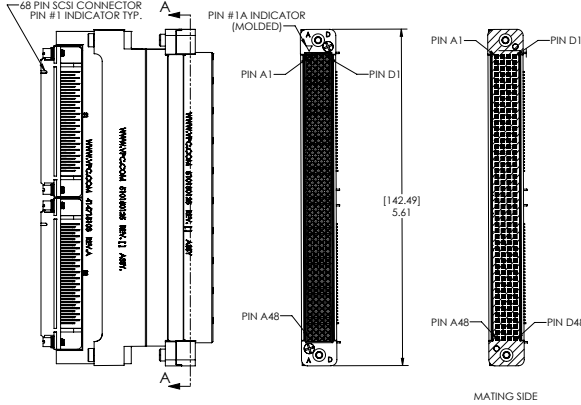
WIRING SIDE

Receiver • Part # 510 150 116		ITA • Part # 510 151 106
Part #	Description	Contacts Used
480 POSITION RECEIVER MODULES AND STRAIN RELIEFS		
510 150 131	Signal Module, Receiver, QuadraPaddle, 480 Position, Fully Loaded with Twin Female Contacts (610 138 200)	610 138 117/118/200
510 150 116	Signal Module, Receiver, QuadraPaddle, 480 Position, Unloaded	610 138 216
510 150 147	Signal Module, Receiver, QuadraPaddle, 480 Position, Fully Loaded with Twin Female Contacts and Square Posts for Wire Wrap (610 138 200 and 610 138 118)	610 138 118/200
510 150 135	Signal Module, Receiver, QuadraPaddle, 480 Position, Fully Loaded with Twin Female Contacts and Round Posts (610 138 200 and 610 138 117)	610 138 117/200
510 109 348	Strain Relief Plate for QuadraPaddle 480 Position Receiver Modules	
480 POSITION ITA MODULES AND STRAIN RELIEFS		
510 151 106	Signal Module, ITA, QuadraPaddle, 480 Position, Unloaded	610 138 109/112/115/122
510 151 108	Signal Module, ITA, QuadraPaddle, 480 Position, Fully Loaded with610 138 115 Round Posts (610 138 115)	
510 151 127	Signal Module, ITA, QuadraPaddle, 480 Position, Fully Loaded with Square Posts for Wire Wrap with Anti-Rotation (610 138 122)	610 138 122
510 109 296	Strain Relief Plate for ITA Modules	

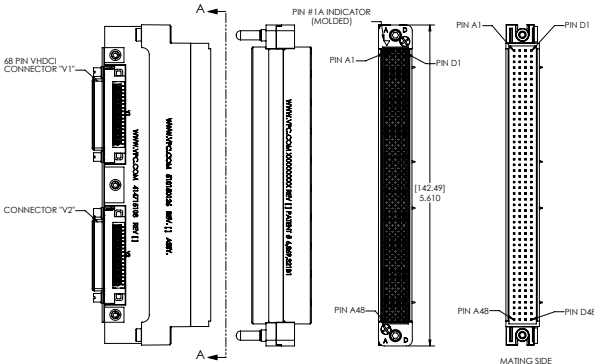
SCSI and VHDCI Receiver PCB Adapters • 2 x 68

PCB Specifications	
Current Rating	1 amp @ 30 VAC
Temperature	-55° C to 105° C
Termination Resistance	50 mΩ typical
Insulation Resistance	1000 MΩ min.
Dielectric Withstanding Volt-age (DWV)	500 VAC min.
Module Positions Needed	1





MATING SIDE



MATING SIDE

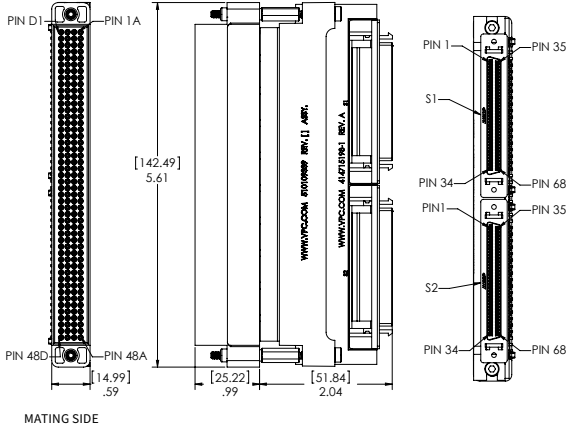
PCB Adapter, Receiver • Part # 510 150 125		PCB Adapter, Receiver • Part # 510 150 126
Part #	Description	
2 X 68 SCSI PCB ADAPTERS		
510 150 125	PCB Adapter, Receiver, QuadraPaddle, 192 Position, to PCB-Mounted 2x68 Male SCSI Connectors	
510 150 126	PCB Adapter, Receiver, QuadraPaddle, 192 Position, to PCB-Mounted 2x68 Female VHDCI Connectors	
STANDARD CABLES FOR PCB ADAPTERS – 18"		
515 109 113	Cable Assembly, 68 Pin Female SCSI (Thumb Screws) to 68 Pin Male VHDCI (Thumb Screws), 18"	
515 109 117	Cable Assembly, 68 Pin Female SCSI (Thumb Screws) to 68 Pin Female SCSI (Thumb Screws), 18"	
515 109 119	Cable Assembly, 68 Pin Female SCSI (Thumb Screws) to 68 Pin Male SCSI (Spring Latch), 18"	
515 109 121	Cable Assembly, 68 Pin Female SCSI (Thumb Screws) to 68 Pin Male SCSI (Thumb Screws), 18"	
515 109 130	Cable Assembly, 68 Pin Female SCSI (Thumb Screws) to 68 Pin Female SCSI (Spring Latch), 18"	
515 109 001	Cable Assembly, 68 Pin Male VHDCI (Thumb Screws) to 68 Pin Male VHDCI (Thumb Screws), 18"	
STANDARD CABLES FOR PCB ADAPTERS – 36"		
515 109 114	Cable Assembly, 68 Pin Female SCSI (Thumb Screws) to 68 Pin Male VHDCI (Thumb Screws), 36"	
515 109 118	Cable Assembly, 68 Pin Female SCSI (Thumb Screws) to 68 Pin Female SCSI (Thumb Screws), 36"	
515 109 120	Cable Assembly, 68 Pin Female SCSI (Thumb Screws) to 68 Pin Male SCSI (Spring Latch), 36"	
515 109 122	Cable Assembly, 68 Pin Female SCSI (Thumb Screws) to 68 Pin Male SCSI (Thumb Screws), 36"	
515 109 131	Cable Assembly, 68 Pin Female SCSI (Thumb Screws) to 68 Pin Female SCSI (Spring Latch), 36"	
515 109 002	Cable Assembly, 68 Pin Male VHDCI (Thumb Screws) to 68 Pin Male VHDCI (Thumb Screws), 36"	

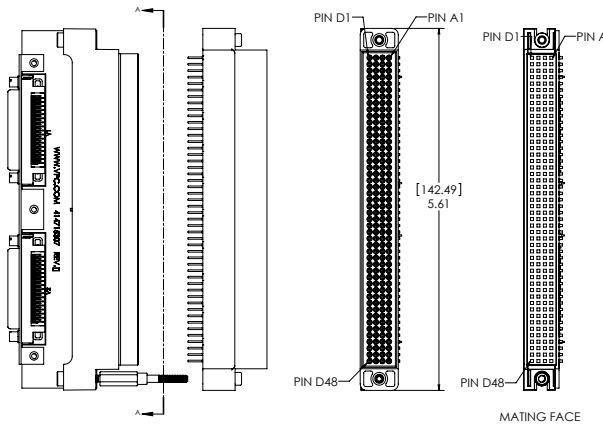
SCSI and VHDCI ITA PCB Adapters • 2 x 68

PCB Specifications

Current Rating	1 amp @ 30 VAC
Temperature	–55° C to 105° C
Termination Resistance	50 mΩ typical
Insulation Resistance	1000 MΩ min.
Dielectric Withstanding Volt-age (DWV)	500 VAC min.
Module Positions Needed	1







PCB Adapter, ITA • Part # 510 109 339

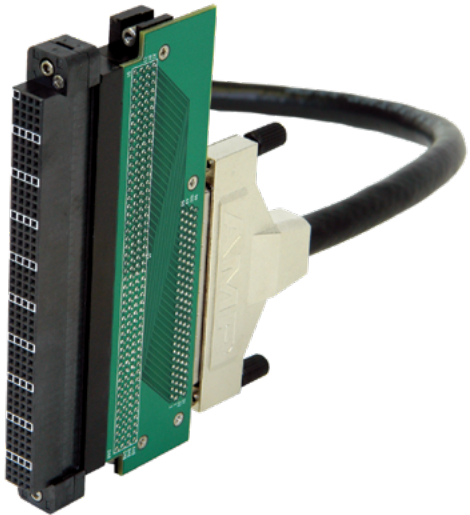
PCB Adapter, ITA • Part # 510 151 123

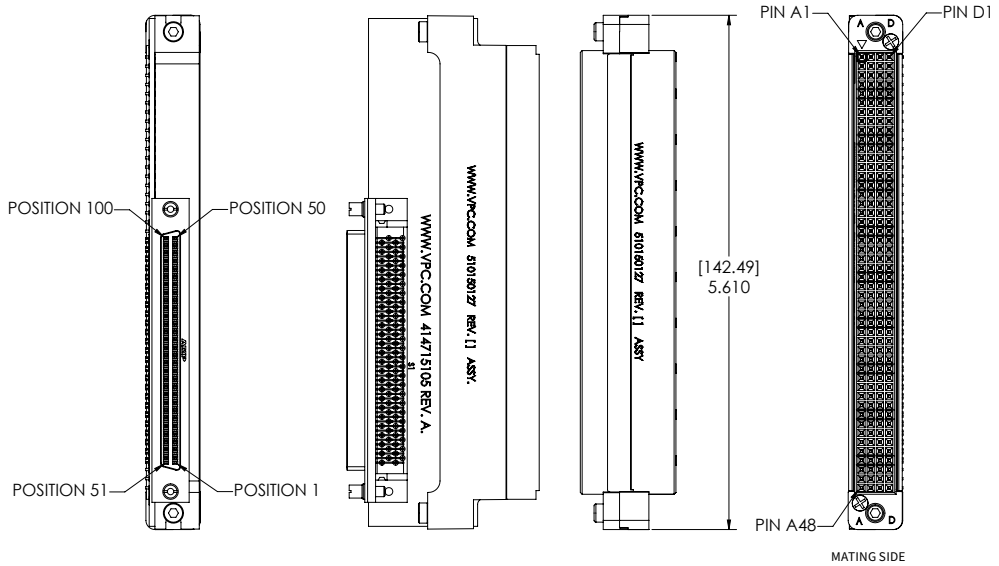
Part #	Description
2 X 68 ITA PCB ADAPTERS	
510 109 339	PCB Adapter, ITA, QuadraPaddle, 192 Position, to PCB-mounted 2x68 Pin Female SCSI Connectors
510 150 165	PCB Adapter, ITA, QuadraPaddle, 192 Position, to PCB-Mounted 2x68 Pin Male SCSI Connectors
510 151 123	PCB Adapter, ITA, QuadraPaddle, 192 Position, to PCB-Mounted 2x68 Pin Female VHDCI Connectors
STANDARD CABLES FOR PCB ADAPTERS – 18"	
515 109 119	Cable Assembly, 68 Pin Female SCSI (Thumb Screws) to 68 Pin Male SCSI (Spring Latch), 18"
515 109 001	Cable Assembly, 68 Pin Male VHDCI (Thumb Screws) to 68 Pin Male VHDCI (Thumb Screws), 18"

SCSI PCB Adapter • 1 x 100

PCB Specifications

Current Rating	1 amp @ 30 VAC
Temperature	–55° C to 105° C
Termination Resistance	50 mΩ typical
Insulation Resistance	1000 MΩ min.
Dielectric Withstanding Volt-age (DWV)	500 VAC min.
Module Positions Needed	1



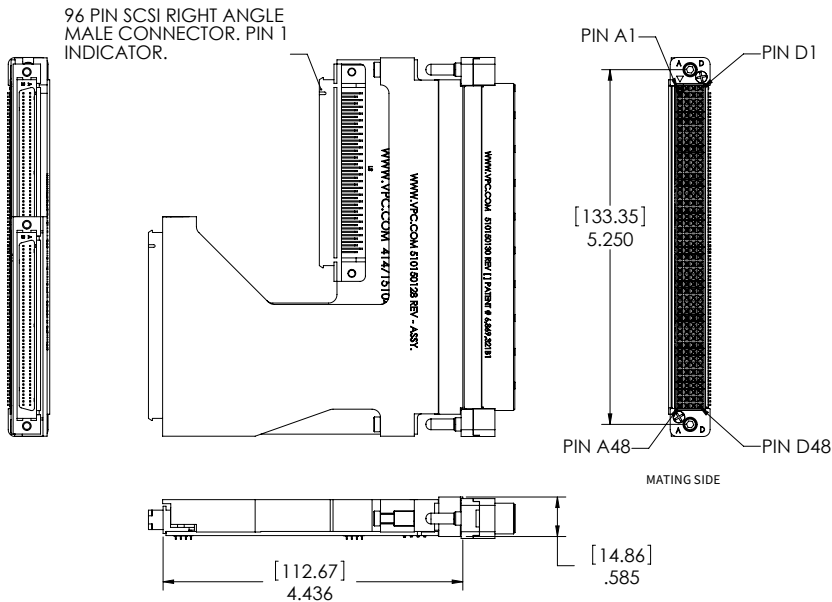
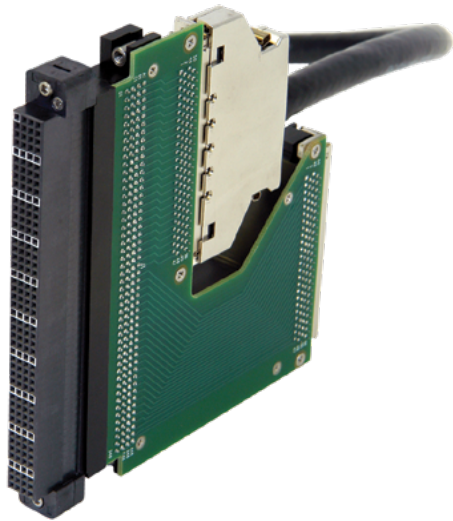


PCB Adapter, Receiver • Part # 510 150 127

Part #	Description
1 X 100 SCSI PCB ADAPTER	
510 150 127	PCB Adapter, Receiver, QuadraPaddle, 192 Position, to PCB-Mounted 1x100 Pin Female SCSI Connector
STANDARD CABLES FOR PCB ADAPTERS – 18" AND 36"	
515 109 134	Cable Assembly, 100 Pin Male SCSI (Thumb Screws) to 100 Pin Male SCSI, Twisted Pair, Double Ended, 18"
515 109 133	Cable Assembly, 100 Pin Male SCSI (Thumb Screws) to 100 Pin Male SCSI, Twisted Pair, Double Ended, 36"

SCSI PCB Adapter • 2 x 96

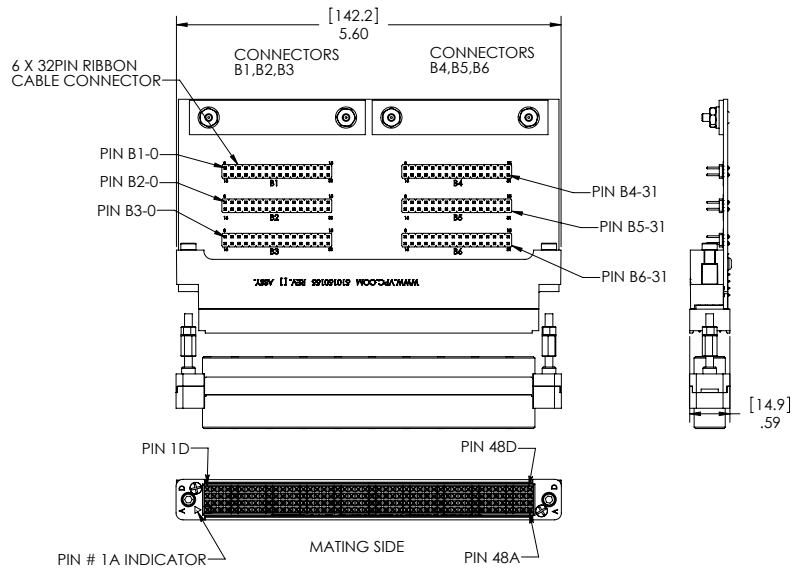
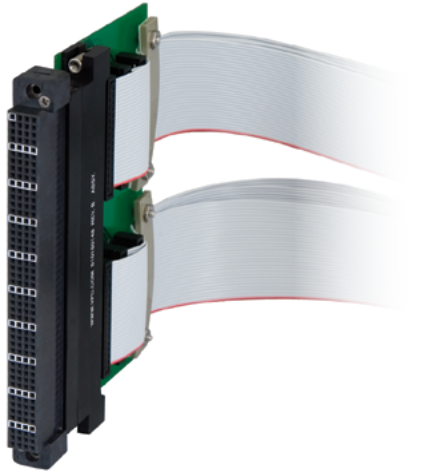
PCB Specifications	
Current Rating	1 amp @ 30 VAC
Temperature	-55° C to 105° C
Termination Resistance	50 mΩ typical
Insulation Resistance	1000 MΩ min.
Dielectric Withstanding Voltage (DWV)	500 VAC min.
Module Positions Needed	1



PCB Adapter, Receiver • Part # 510 150 128	
Part #	Description
2 X 96 SCSI PCB ADAPTER 510 150 128	PCB Adapter, Receiver, QuadraPaddle, 192 Position, to 2x96 Pin Male SCSI Connectors
STANDARD CABLES FOR PCB ADAPTERS – 18" AND 36"	
515 109 007	Cable Assembly, 96 Pin Female SCSI (Spring Latch) to 96 Pin Female SCSI, Double Ended, 18"
515 109 008	Cable Assembly, 96 Pin Female SCSI (Spring Latch) to 96 Pin Female SCSI, Double Ended, 36"

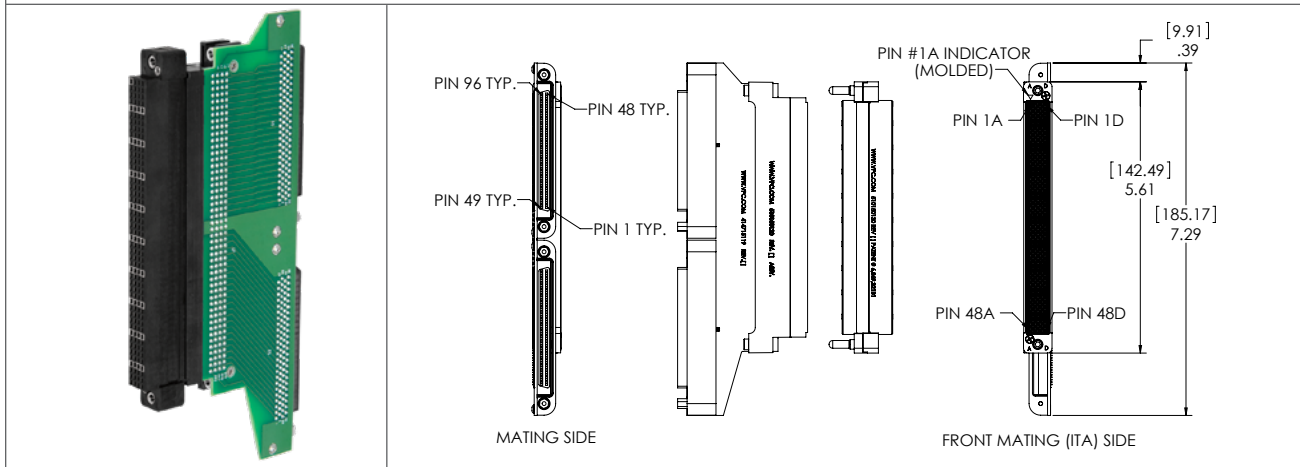
PCB Adapter

PCB Specifications	
Current Rating	3 amps @ 50 volts RMS
Temperature	-55° C to 105° C
Termination Resistance	50 mΩ typical
Insulation Resistance	1000 MΩ min.
Dielectric Withstanding Voltage (DWV)	500 VAC min.
Module Slots Needed	1

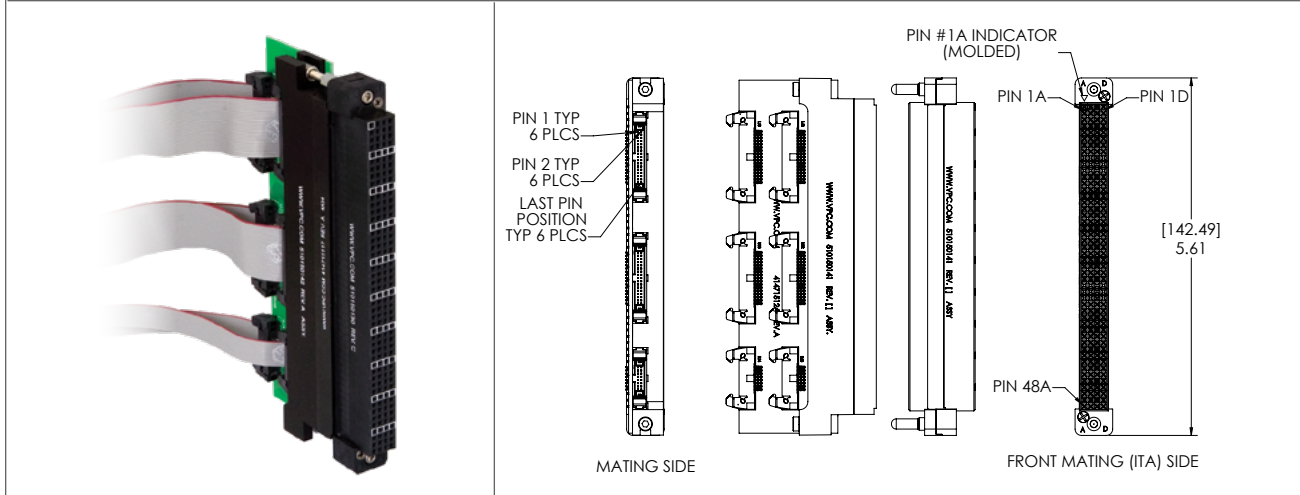


PCB Adapter, Receiver • Part # 510 150 155	
Part #	Description
PCB ADAPTER WITH ALL PINS WIRED 510 150 155	PCB Adapter, Receiver, QuadraPaddle, 192 Position, to PCB-Mounted 6x32-Pin Ribbon Cable Headers
STANDARD CABLES FOR PCB ADAPTERS – 20" AND 36"	
515 109 162	Cable Assembly, 32 Pin .100" [2.54 mm] Pitch Ribbon Cable, Double Ended, 20"
515 109 163	Cable Assembly, 32 Pin .100" [2.54 mm] Pitch Ribbon Cable, Double Ended, 36"
NOTE: This is a left mount PCB adapter for optimal cable management. Do not use beside a right mount PCB Adapter.	

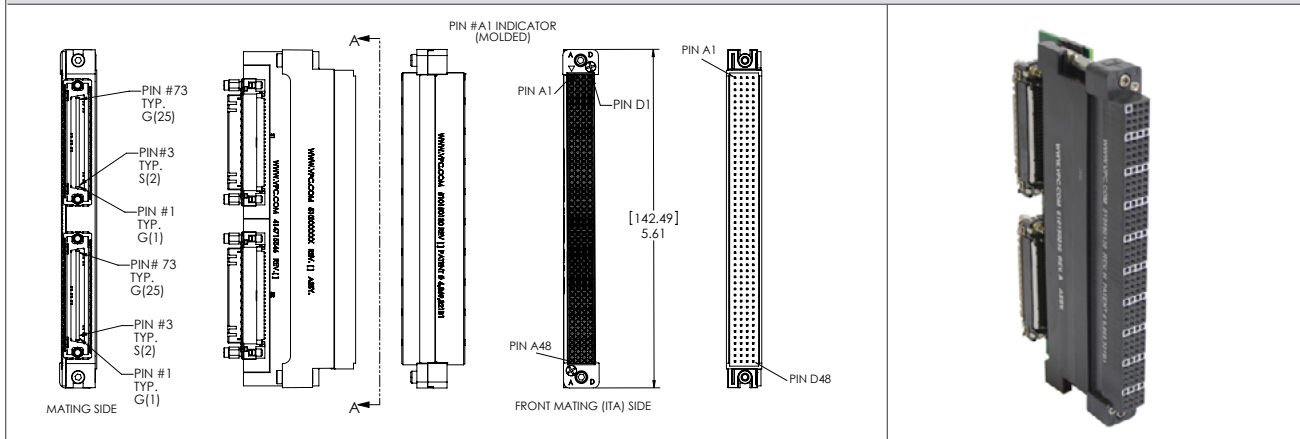
PCB Adapter Solutions



PCB Adapter, Receiver, QuadraPaddle, 192 Position, to PCB-Mounted 2x96 SCSI Connectors • Part # 510 150 120



PCB Adapter, Receiver, QuadraPaddle, 192 Position, to NI PXI-2532 • Part # 510 150 141

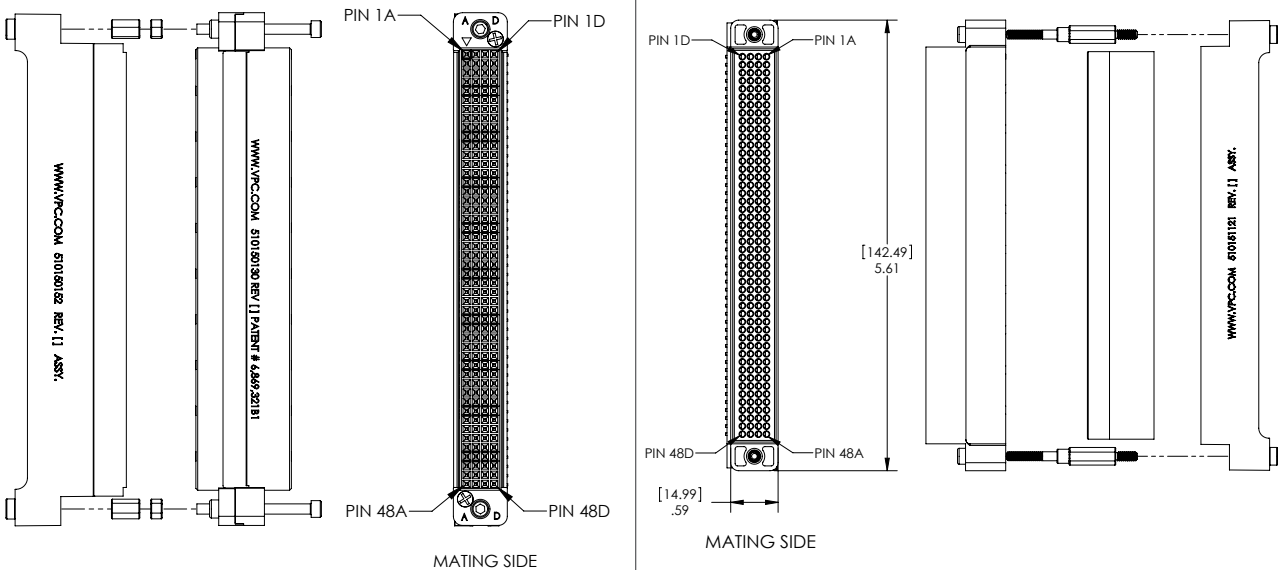


PCB Adapter, Receiver, QuadraPaddle, 192 Position, to 2 PCB Mounted 12X Male InfiniBand Connectors (LVDS) • Part # 510 150 210

QuadraPaddle Right Angle Contact Modules

PCB Specifications

Receiver and ITA Material	Black LCP/black PEI
Temperature	-55° C to 125° C
Dielectric Withstanding Voltage (DWV)	1500 VDC min.
Available Contact Positions	192
Module Positions Needed	1



Receiver • Part # 510 150 152

ITA • Part # 510 151 121

Part #	Description
QUADRAPADDLE RECEIVER RIGHT ANGLE CONTACT MODULES	
510 150 152	Signal Module, Receiver, QuadraPaddle, 192 Position, Right Angle Contacts for Custom PCB Mounting (510 150 130 and 510 109 315)
510 109 315	Header/Shroud Right Angle Kit, Receiver, QuadraPaddle, for Custom PCB Mounting (requires 510 150 130)
QUADRAPADDLE ITA RIGHT ANGLE CONTACT MODULES	
510 151 121	Signal Module, ITA, QuadraPaddle, 192 Position, Right Angle Contacts for Custom PCB Mounting (510 151 107 and 510 109 316)
510 109 316	Header/Shroud Right Angle Kit, ITA, QuadraPaddle, for Custom PCB Mounting (requires 510 151 107)

TriPaddle Signal Contacts

Contact Specifications

Operating Current and Voltage	7 amps max. continuous (20 AWG) 10 amps max. continuous (14 AWG) 600 volt max. use of wire MIL-W-16878/4
Contact Resistance	4 mΩ max. Measured at 50 mV @ 100 mA
Mating Force	10 oz. nominal [.25 kg]
Dielectric Withstanding Voltage (DWV)	1500 VDC min.
Insulation Resistance	4000 MΩ min.
Contact Body Material	Female (RCV) – BeCu Male (ITA) – brass
Contact Plating	Female (RCV) – 30μ" Au over 100μ" Ni Male (ITA) – 30μ" Au over 100μ" Ni 10 Amp (RCV & ITA) – 50μ" Au over 100μ" Ni
Cycle Life	20,000 cycles

ITA Contact
Part # 610 110 108

Receiver Contact
Part # 610 110 101

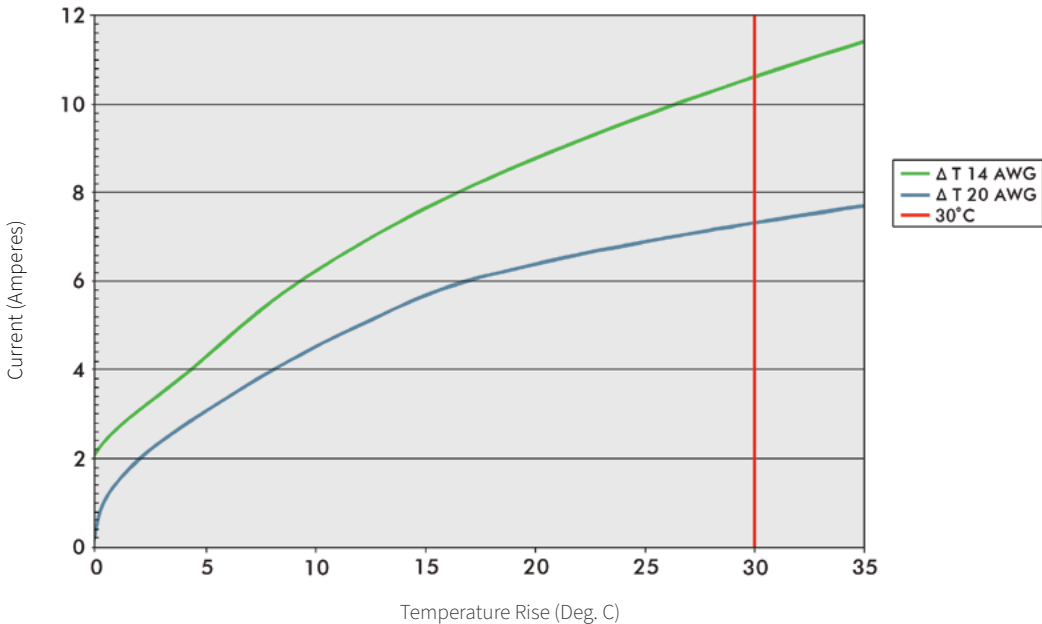
Receiver Contact
Part # 610 110 128

ITA Contact
Part # 610 110 129

Receiver Contact
Part # 610 110 167

ITA Contact
Part # 610 110 169

TriPaddle Contact
20 AWG & 14 AWG
T-Rise Test



TriPaddle Signal Contacts

ITA Contact
Part # 610 110 113

Receiver Contact
Part # 610 110 104

Part #	Description	Used in Module
TRIPADDLE RECEIVER CONTACTS		
610 110 101	Signal Contact, Receiver, TriPaddle, 7 Amp, 20-24 AWG, 30μ" Gold	510 104 134/136/149/206/243/261/306/307 510 160 103/108/109/111/115/124
610 110 128	Signal Contact, Receiver, TriPaddle, 10 Amp, 14-18 AWG max, 50μ" Gold	510 104 134/136/149/206/243/261/306/307 510 160 103/108/109/111/115/124
610 110 167	Signal Contact, Receiver, TriPaddle, 7 Amp, 26-28 AWG, 30μ" Gold	510 104 134/136/149/206/243/261/306/307 510 160 103/108/109/111/115/124
610 110 177	Signal Contact, Receiver, TriPaddle, 10 Amp, 14-18 AWG, 30μ" Gold	510 104 134/136/149/206/243/261/306/307 510 160 103/108/109/111/115/124
610 110 179	Signal Contact, Receiver, TriPaddle, 5 Amp, .025" Round Post, 30μ" Gold	510 104 134/136/149/206/243/261/306/307 510 160 103/108/109/111/115/124
TRIPADDLE ITA CONTACTS		
610 110 108	Signal Contact, ITA, TriPaddle, 7 Amp, 20-24 AWG, 30μ" Gold	510 108 101/126/131/178/210/245 510 161 103/108/109/111/115
610 110 129	Signal Contact, ITA, TriPaddle, 10 Amp, 14-18 AWG max, 30μ" Gold	510 108 101/126/131/178/210/245 510 161 103/108/109/111/115
610 110 146	Signal Contact, ITA, TriPaddle, 7 Amp, 20-24 AWG, 50μ" Gold, Crimp/Solder	510 108 101/126/131/178/210/245 510 161 103/108/109/111/115
610 110 169	Signal Contact, ITA, TriPaddle, 7 Amp, 26-28 AWG, 30μ" Gold	510 108 101/126/131/178/210/245 510 161 103/108/109/111/115
610 110 113	Signal Contact, ITA, TriPaddle, 7 Amp, .025" Post for Wire Wrap, 30μ" Gold	510 108 101/126/131/178/210/245 510 161 103/108/109/111/115
CRIMP TOOLS		
910 101 102	Tool, Crimp, 10 Amp TriPaddle, Thermocouple, Micro Power, Receiver and ITA, Locator Required	610 110 128/129/177
910 101 103	Tool, Crimp, QuadraPaddle and TriPaddle, Receiver and ITA Contacts, Locator Required	610 110 101/108/167/169/179
LOCATORS		
910 104 127	Tool, Locator, TriPaddle, Receiver	610 110 101/167/179
910 104 107	Tool, Locator, TriPaddle, ITA	610 110 108/169
910 104 116	Tool, Locator, TriPaddle, Receiver	610 110 128
910 104 118	Tool, Locator, TriPaddle, ITA	610 110 129
EXTRACTION TOOL		
910 110 102	Tool, Extraction, Receiver and ITA, TriPaddle and Thermocouple	

TriPaddle Signal Patchcords



TriPaddle Receiver Patchcord		TriPaddle ITA Patchcord
Part #	Description	Used in Module
TRIPADDLE RECEIVER AND ITA PATCHCORDS		
7-104 924 000-036	Signal Patchcord, Receiver, TriPaddle, 3 Amp, 36", 24 AWG, Single Ended	510 104 134/136/149/206/243/261/306/307 510 160 103/108/109/111/115/124
7-104 922 000-036	Signal Patchcord, Receiver, TriPaddle, 5 Amp, 36", 22 AWG, Single Ended	510 104 134/136/149/206/243/261/306/307 510 160 103/108/109/111/115/124
7-102 914 000-036	Signal Patchcord, Receiver, TriPaddle, 10 Amp, 36", 14 AWG, Single Ended	510 104 134/136/149/206/243/261/306/307 510 160 103/108/109/111/115/124
7-103 924 000-036	Signal Patchcord, ITA, TriPaddle, 36", 3 Amp, 24 AWG, Single Ended	510 108 101/126/131/178/210/245 510 161 103/108/109/111/115/
7-103 922 000-036	Signal Patchcord, ITA, TriPaddle, 36", 5 Amp, 22 AWG, Single Ended	510 108 101/126/131/178/210/245 510 161 103/108/109/111/115
7-101 914 000-036	Signal Patchcord, ITA, TriPaddle, 36", 10 Amp, 14 AWG, Single Ended	510 108 101/126/131/178/210/245 510 161 103/108/109/111/115
TRIPADDLE ITA PATCHCORD JUMPERS (DOUBLE ENDED)		
7-103 924 103-006	Signal Patchcord, ITA, TriPaddle, 6", 3 Amp, 24 AWG, Double Ended Jumpers	510 108 101/126/131/178/210/245 510 161 103/108/109/111/115
7-103 922 103-006	Signal Patchcord, ITA, TriPaddle, 6", 5 Amp, 22 AWG, Double Ended Jumpers	510 108 101/126/131/178/210/245 510 161 103/108/109/111/115
7-101 914 101-006	Signal Patchcord, ITA, TriPaddle, 6", 10 Amp, 14 AWG, Double Ended Jumpers	510 108 101/126/131/178/210/245 510 161 103/108/109/111/115

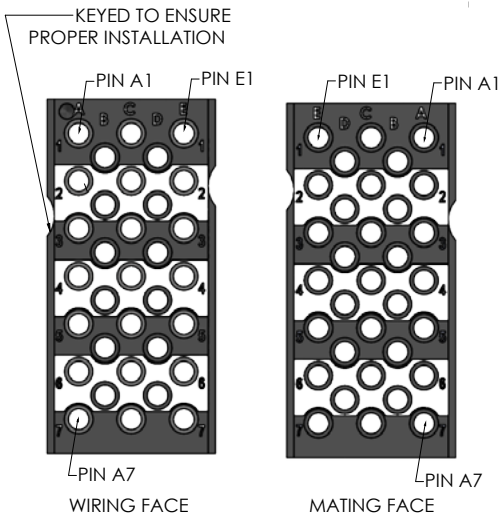
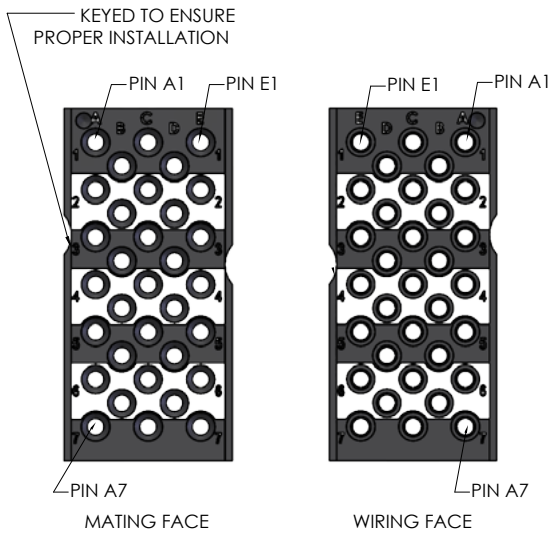


TriPaddle Receiver Twisted Pair Patchcord		TriPaddle ITA Twisted Pair Patchcord
Part #	Description	Used in Module
TRIPADDLE TWISTED PAIR RECEIVER AND ITA PATCHCORDS		
7-104 424 000-036	Signal Patchcord, Receiver, TriPaddle, 3 Amp, 36", 24 AWG Twisted Pair, Single Ended	510 104 134/136/149/206/243/261/306/307 510 160 103/108/109/111/115/124
7-104 422 000-036	Signal Patchcord, Receiver, TriPaddle, 5 Amp, 36", 22 AWG Twisted Pair, Single Ended	510 104 134/136/149/206/243/261/306/307 510 160 103/108/109/111/115/124
7-103 424 000-036	Signal Patchcord, ITA, TriPaddle, 36", 3 Amp, 24 AWG Twisted Pair, Single Ended	510 108 101/126/131/178/210/245 510 161 103/108/109/111/115
7-103 422 000-036	Signal Patchcord, ITA, TriPaddle, 36", 5 Amp, 24 AWG Twisted Pair, Single Ended	510 108 101/126/131/178/210/245 510 161 103/108/109/111/115
TRIPADDLE ITA TWISTED PAIR PATCHCORD JUMPERS (DOUBLE ENDED)		
7-103 424 103-006	Signal Patchcord, ITA, TriPaddle, 6", 24 AWG Twisted Pair, Double Ended Jumpers	510 108 101/126/131/178/210/245 510 161 103/108/109/111/115
7-103 422 103-006	Signal Patchcord, ITA, TriPaddle, 3 Amp, 6", 22 AWG Twisted Pair, Double Ended Jumpers	510 108 101/126/131/178/210/245 510 161 103/108/109/111/115
USB PATCHCORDS		
7-104 872 596-036	Signal Patchcord, Receiver, TriPaddle, 36", USB 2.0 Wire, to USB Type A Plug	
7-103 872 596-036	Signal Patchcord, ITA, TriPaddle, 36", USB 2.0 Wire, to USB Type A Plug	
RJ45 PATCHCORDS		
7-106 870 595-036	Signal Patchcord, Receiver, TriPaddle, 36", CAT5e, to RJ45 Plug	
7-105 870 595-036	Signal Patchcord, ITA, TriPaddle, 36", CAT5e, to RJ45 Plug	

TRIPADDLE MODULE • I2 MX INSERT

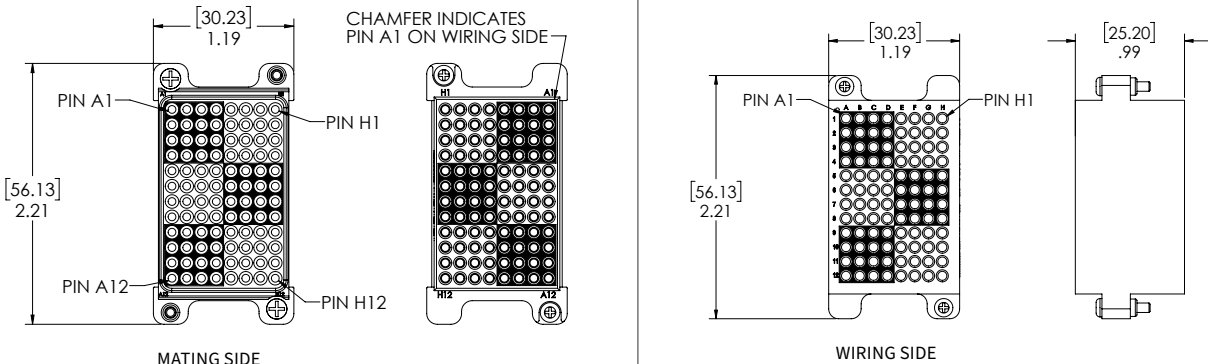
Specifications

Material	G10 epoxy glass
Operating Temperature	-40°C to 125°C
Dielectric Withstanding Voltage (DWV)	1500 VDC min.
Available Contact Positions	33
Module Positions Needed	1

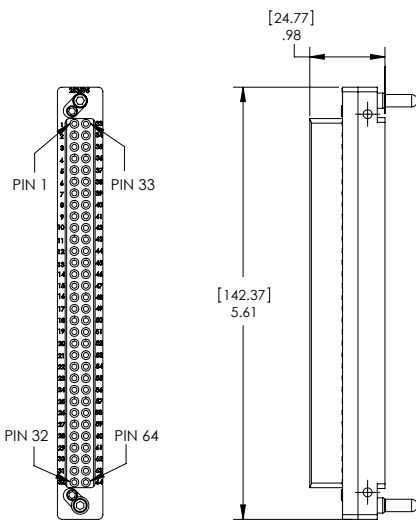
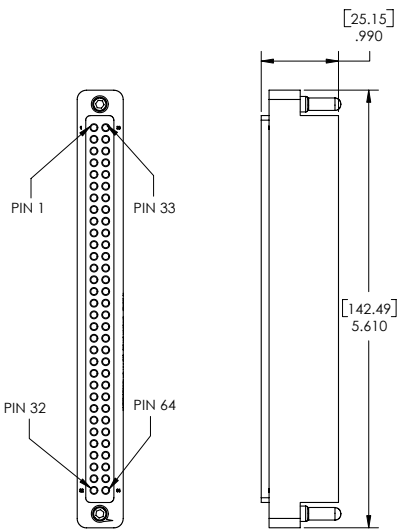


Receiver • Part # 510 143 006		ITA • Part # 510 144 006
Part #	Description	Contacts Used
I2 MX RECEIVER TRIPADDLE MODULE INSERT		
510 143 006	TriPaddle Signal, Module Insert, Receiver, i2 MX, 33 Position	610 110 101 610 110 177 610 110 128 610 110 167
I2 MX ITA TRIPADDLE MODULE INSERT		
510 144 006	TriPaddle Signal, Module Insert, ITA, i2 MX, 33 Position	610 110 108 610 110 113 610 110 129 610 110 169

TriPaddle Module • iCon Insert

Module Specifications		
Material	Black Ryton R4-230 (ITA) G10 epoxy glass (receiver)	
Temperature	Operating • -55° C to 125° C Non-operating • -55° C to 140° C	
Dielectric Withstanding Voltage (DWV)	1500 VDC min.	
Available Contact Positions	96	
Module Positions Needed	1	
		
		
Receiver • Part # 510 160 108		
ITA • Part # 510 161 108		
Part #	Description	Contacts Used
ICON RECEIVER TRIPADDLE SIGNAL MODULE		
510 160 108	Signal Module, Receiver, TriPaddle, iCon, 96 Position	610 110 101/104/128/167/177/179
ICON ITA TRIPADDLE SIGNAL MODULE		
510 161 108	Signal Module, ITA, TriPaddle, iCon, 96 Position	610 110 108/113/129/169

TriPaddle Module • 90 Series insert

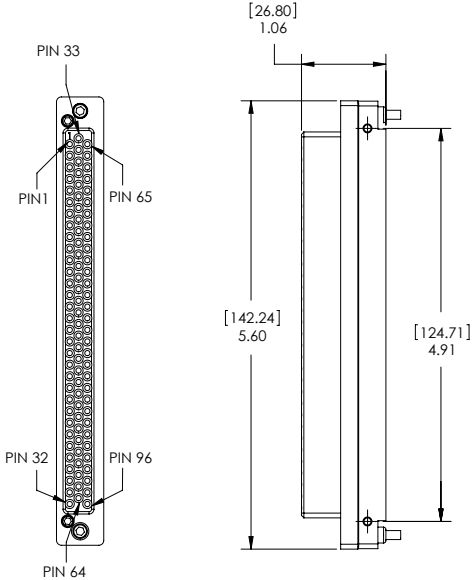
Module Specifications		
Receiver Material	Black PPS	
Receiver Temperature	Operating • -55° C to 125° C Non-operating • -65° C to 220° C	
ITA Material	PBT	
ITA Temperature	Operating • -40° C to 125° C Non-operating • -40° C to 140° C	
Dielectric Withstanding Voltage (DWV)	1500 VDC min.	
Available Contact Positions	64	
Module Positions Needed	1	
 		
Receiver • Part # 510 104 134		
ITA • Part # 510 108 101		
Part #	Description	Contacts Used
TRIPADDLE RECEIVER MODULES AND STRAIN RELIEFS		
510 104 134	Signal Module, Receiver, TriPaddle, 64 Position	610 110 101/104/128/167/177/179
510 109 116	Strain Relief Plate for Select Receiver Modules	
TRIPADDLE ITA MODULES AND STRAIN RELIEFS		
510 108 101	Signal Module, ITA, TriPaddle, 64 Position	610 110 108/113/129/169
510 109 296	Strain Relief Plate for ITA Modules	

TriPaddle Module • 90 Series insert

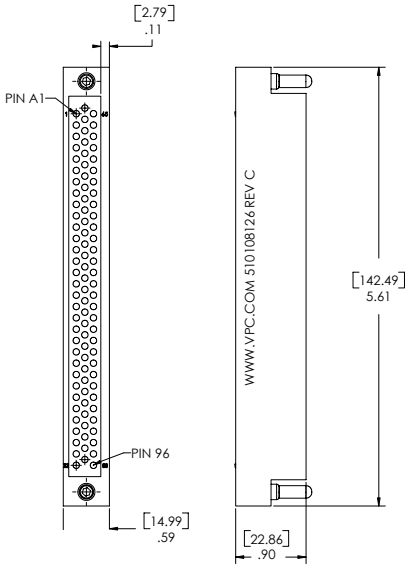
Module Specifications

Material	Black PPS
Temperature	Operating • -55° C to 125° C Non-operating • -65° C to 220° C
Dielectric Withstanding Volt- age (DWV)	1500 VDC min.
Available Contact Positions	96
Module Positions Needed	1





Receiver • **Part # 510 104 136**



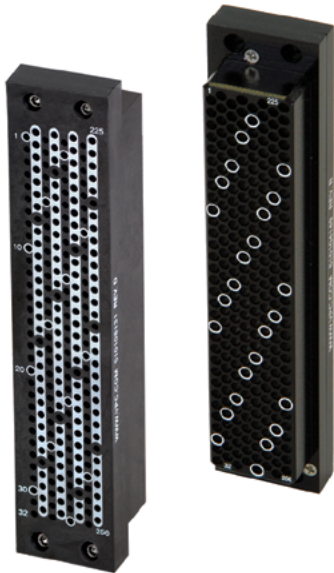
ITA • **Part # 510 108 126**

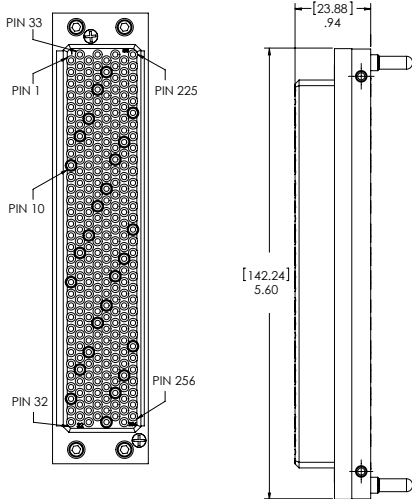
Part #	Description	Contacts Used
510 104 136	TRIPADDLE RECEIVER MODULE AND STRAIN RELIEF	
510 109 116	Signal Module, Receiver, TriPaddle, 96 Position	610 110 101/104/128/167/177/179
510 109 116	Strain Relief Plate for Select Receiver Modules	
510 108 126	TRIPADDLE ITA MODULE AND STRAIN RELIEF	
510 109 296	Signal Module, ITA, TriPaddle, 96 Position	610 110 108/113/129/169
510 109 296	Strain Relief Plate for ITA Modules	

TriPaddle Module • 90 Series insert

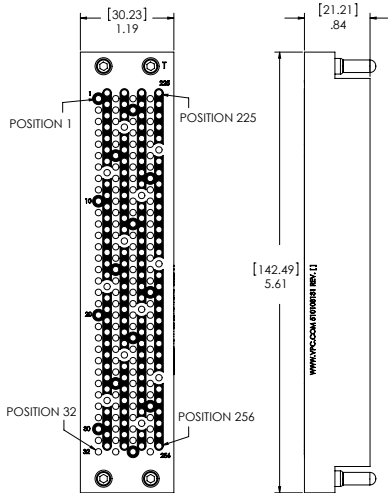
Module Specifications

Receiver Material	Black PPS
Receiver Temperature	Operating • -55° C to 125° C Non-operating • -65° C to 220° C
ITA Material	Black-LCP
ITA Temperature	Operating • -55° C to 125° C Non-operating • -65° C to 200° C
Dielectric Withstanding Volt- age (DWV)	1500 VDC min.
Available Contact Positions	256
Module Positions Needed	2





Receiver • **Part # 510 104 149**

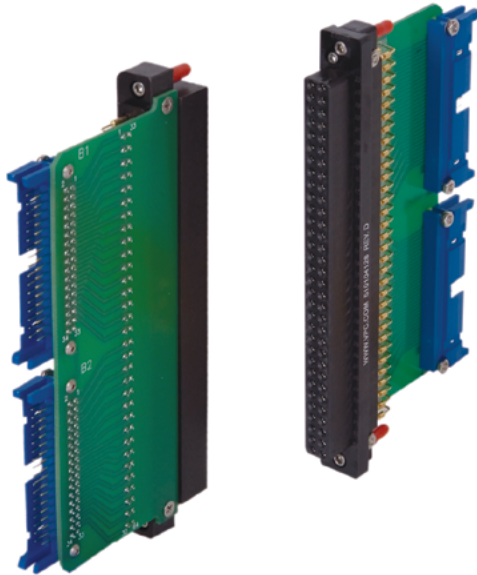


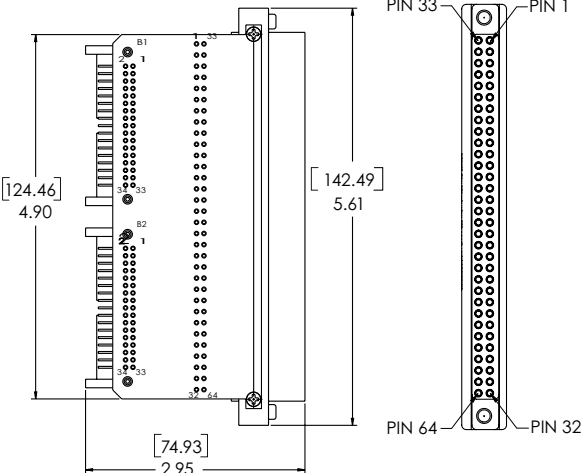
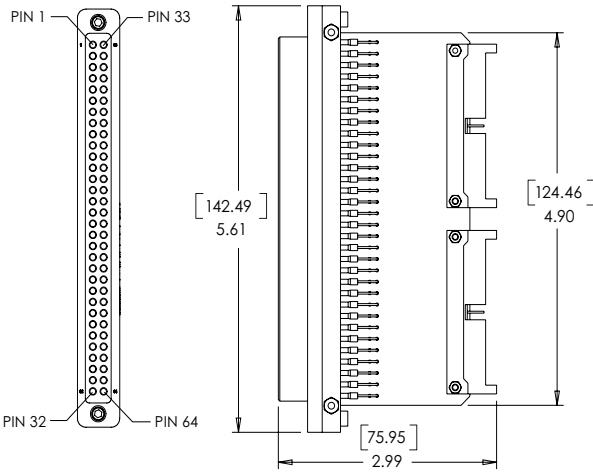
ITA • **Part # 510 108 131**

Part #	Description	Contacts Used
510 104 149	TRIPADDLE RECEIVER MODULE AND STRAIN RELIEF	
510 109 116	Signal Module, Receiver, TriPaddle, 256 Position	610 110 101/104/128/167/177/179
510 109 116	Strain Relief Plate for Select Receiver Modules	
510 108 131	TRIPADDLE ITA MODULE AND STRAIN RELIEF	
510 109 296	Signal Module, ITA, TriPaddle, 256 Position	610 110 108/113/129/169
510 109 296	Strain Relief Plate for ITA Modules	

TriPaddle PCB Adapters

Module Specifications	
Current Rating	1 amp @ 150 volts RMS
Temperature	−55° C to 105° C
Termination Resistance	50 mΩ typical
Insulation Resistance	1000 MΩ min.
DWV	500 volts RMS
Connector 1	34 pin ribbon cable
Connector 2	34 pin ribbon cable
Module Positions Needed	1

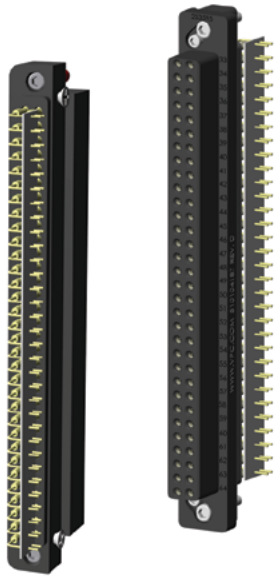


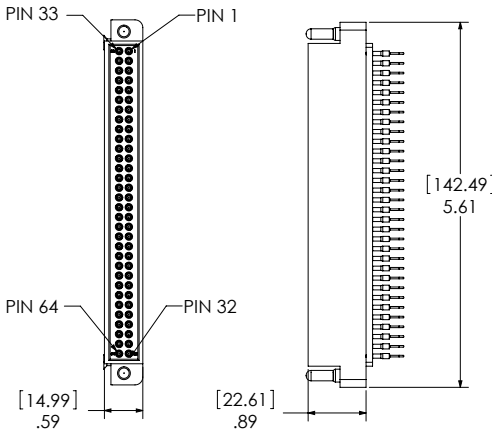
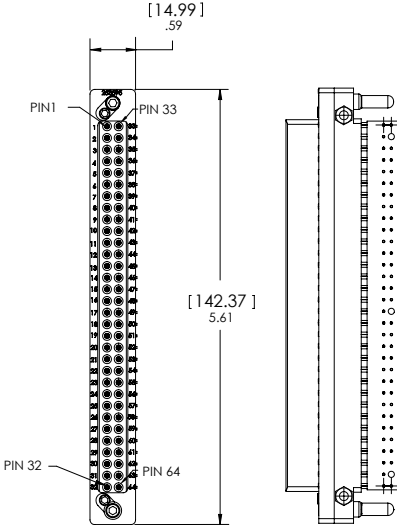


Receiver • Part # 510 104 128		ITA • Part # 510 108 140	
Part #	Description	Part #	Description
510 104 128	RECEIVER PCB ADAPTER PCB Adapter, Receiver, TriPaddle, 64 Position, to PCB-Mounted 2x34 pin (BERG 65496-019) Connectors	510 108 140	ITA PCB ADAPTER PCB Adapter, ITA, TriPaddle, 64 Position, to PCB-Mounted 2x34 pin (BERG 65496-019) Connectors

TriPaddle Right Angle Contact Modules

Module Specifications	
Material	Black PPS
Temperature	Operating • −55° C to 125° C Non-operating • −65° C to 220° C
Available Contact Positions	64
Module Positions Needed	1

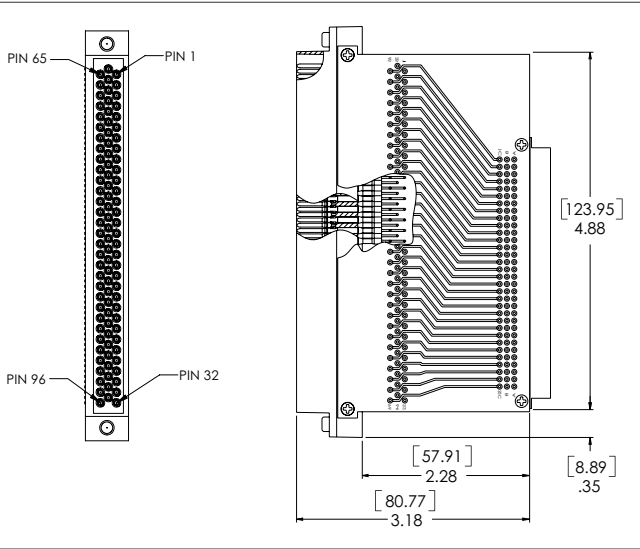
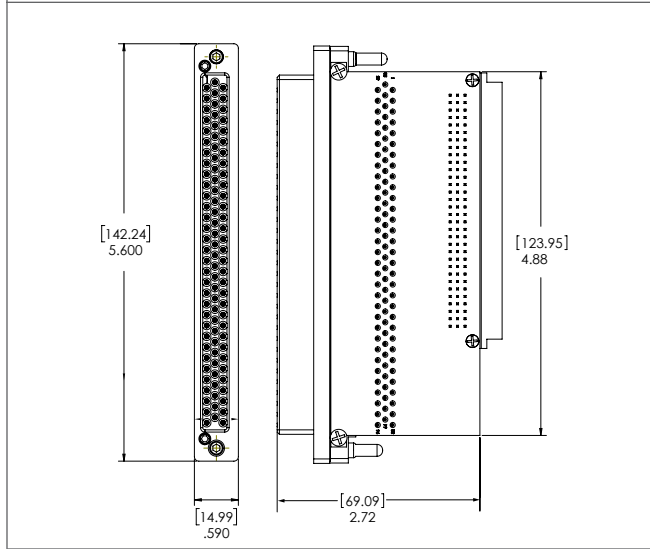
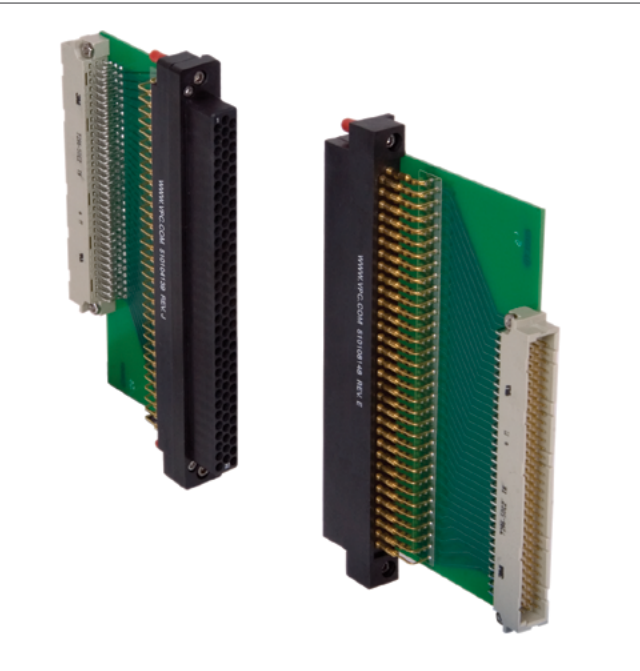




Receiver • Part # 510 104 187		ITA • Part # 510 108 112	
Part #	Description	Part #	Description
510 104 187	RECEIVER RIGHT ANGLE CONTACT MODULE Signal Module, Receiver, TriPaddle, 64 Position with Right Angle Contacts for Custom PCB Mounting	510 108 112	ITA RIGHT ANGLE CONTACT MODULE Signal Module, ITA, TriPaddle, 64 Position with Right Angle Contacts for Custom PCB Mounting

TriPaddle PCB Adapters

Module Specifications	
Current Rating	3 amp @ 150 volts RMS
Temperature	-55° C to 125° C
Termination Resistance	50 mΩ typical
Insulation Resistance	1000 MΩ
Dielectric Withstanding Voltage (DWV)	500 volts RMS min.
Connector 1	96 pin male din connector
Module Positions Needed	1

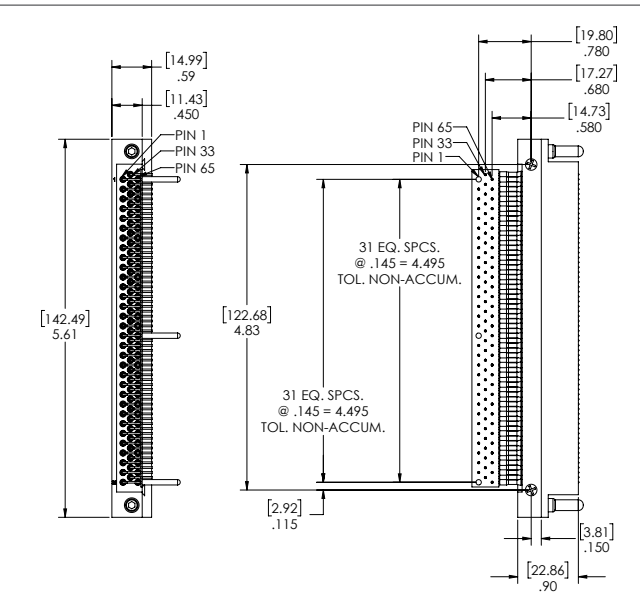
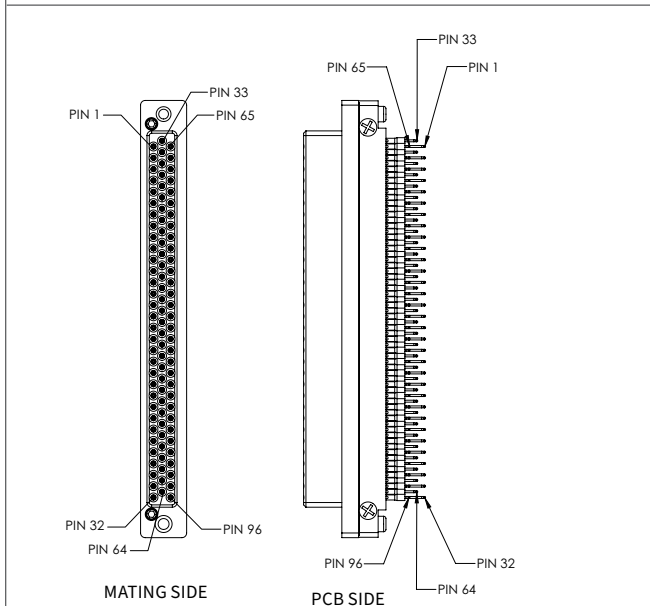


Receiver • Part # 510 104 139		ITA • Part # 510 108 148	
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Part #	Description
RECEIVER PCB ADAPTER 510 104 139	PCB Adapter, Receiver, TriPaddle, 96 Position, to PCB-Mounted 1x96 Male DIN 41612 Connector
ITA PCB ADAPTER 510 108 148	PCB Adapter, ITA, TriPaddle, 96 Position, to PCB-Mounted 1x96 Male DIN 41612 Connector

TriPaddle Right Angle Contact Modules

Module Specifications	
Receiver and ITA Material	Black PPS
Temperature	Operating • -55° C to 125° C Non-operating • -65° C to 220° C
Available Contact Positions	96
Module Positions Needed	1



Receiver • Part # 510 104 135		ITA • Part # 510 108 125	
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Part #	Description
RECEIVER RIGHT ANGLE CONTACT MODULE 510 104 135	Signal Module, Receiver, TriPaddle, 96 Position with Right Angle Contacts for Custom PCB Mounting
ITA RIGHT ANGLE CONTACT MODULE 510 108 125	Signal Module, ITA, TriPaddle, 96 Position with Right Angle Contacts for Custom PCB Mounting

Mini Power Patchcords, Contacts and Tools

Contact Specifications	
Operating Current	65 amp max. continuous • 8 AWG 40 amp max. continuous • 12 AWG 30 amp max. continuous • 14 AWG 25 amp max. continuous • 16 AWG
Contact Resistance	1 mΩ max.
Mating Force	5.7 lbs max. [2.58 kg]
Dielectric Withstanding Voltage (DWV)	1500 VDC min.
Insulation Resistance	1000 MΩ min.
Contact Body Material	Female (RCV) – brass Male (ITA) – BeCu
Contact Plating	50μ" Au over 100μ" Ni
Cycle Life	20,000 cycles

Receiver Contact
Part # 610 116 112

ITA Contact
Part # 610 115 124

Mini Power Contact
610 116 112 / 610 115 124
T-Rise Test

Current (Amperes)

Temperature Rise (Deg. C)

Δ T 8 AWG
30° C

Mini Power Receiver Patchcord		Mini Power ITA Patchcord
Part #	Description	Used in Module
MINI POWER RECEIVER CONTACT 610 116 112 Mini Power Contact, Receiver, 8 AWG (max.), 50μ" Gold		510 104 123/206 510 160 102/103/104
MINI POWER ITA CONTACTS 610 115 124 Mini Power Contact, ITA, 8 AWG (max.), 50μ" Gold 610 115 125 Mini Power Contact, ITA, 8 AWG (max.), 30μ" Gold		510 108 115/178 510 161 102/103/104 510 108 115/178 510 161 102/103/104
Mini Power Receiver and ITA Patchcords 7-232 912 000-036 Mini Power Patchcord, Receiver, 40 Amp, 36", 12 AWG, White Wire, Single Ended 7-231 912 000-036 Mini Power Patchcord, ITA, 40 Amp, 36", 12 AWG, White Wire, Single Ended		510 104 123/206 510 160 102/103/104 510 108 115/178 510 160 102/103/104
EXTRACTION TOOL 910 112 104 Tool, Extraction, Mini Power/Mini Coaxial/Mini Pneumatic Contacts, Receiver and ITA		

Mini Power Module

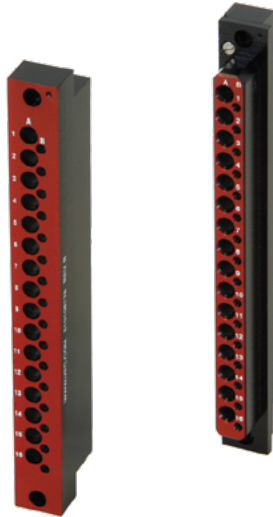
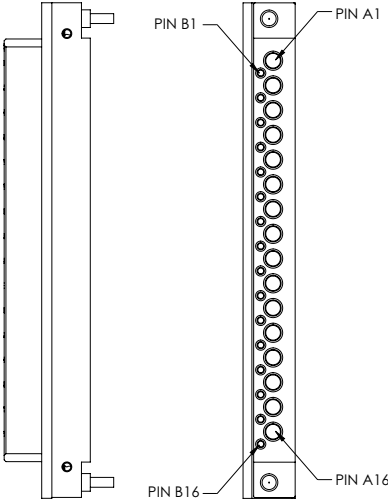
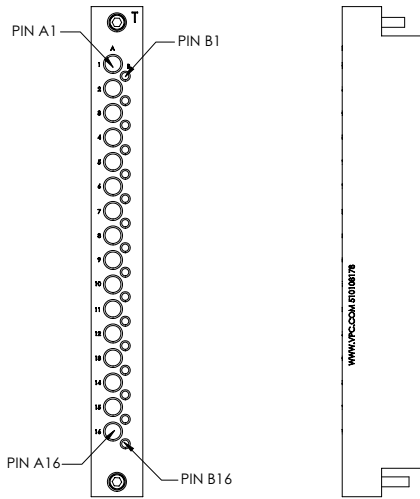
Module Specifications	
Material	Ryton R-7
Temperature	Operating • -55° C to 125° C Non-operating • -55° C to 140° C
Dielectric Withstanding Volt- age (DWV)	1500 VDC min.
Available Contact Positions	19
Module Positions Needed	1

Receiver • Part # 510 104 123

ITA • Part # 510 108 115

Part #	Description	Contacts Used
MINI POWER RECEIVER MODULES AND STRAIN RELIEFS		
510 104 123	Mini Power Module, Receiver, 19 Position	610 116 112
510 109 116	Strain Relief Plate for Select Receiver Modules	
MINI POWER ITA MODULES AND STRAIN RELIEFS		
510 108 115	Mini Power Module, ITA, 19 Position	610 115124/125
510 109 296	Strain Relief Plate for ITA Modules	

TriPaddle/Mini Power Module

Module Specifications					
Material	Ryton R-7				
Temperature	Operating • -55° C to 125° C Non-operating • -65° C to 225° C				
Dielectric Withstanding Volt- age (DWV)	1500 VDC Min.				
Available Contact Positions	16 Signal, 16 Mini Power				
Module Positions Needed	1				
					
 WIRING SIDE			 WIRING SIDE		
Receiver • Part # 510 104 206			ITA • Part # 510 108 178		
Part #	Description	Contacts Used	Part #	Description	Contacts Used
510 104 206	TRIPADDLE SIGNAL/MINI POWER RECEIVER MODULES AND STRAIN RELIEFS TriPaddle Signal/Mini Power Module, Receiver, 16/16 Position	TRIPADDLE 610 110 101/ 128/167/ 177/179	610 116 112		
510 109 116	Strain Relief Plate for Select Receiver Modules				
510 108 178	TRIPADDLE SIGNAL/MINI POWER ITA MODULES AND STRAIN RELIEFS TriPaddle Signal/Mini Power Module, ITA, 16/16 Position	TRIPADDLE 610 110 108/ 113/129/169	610 115 124/125		
510 109 296	Strain Relief Plate for ITA Modules				

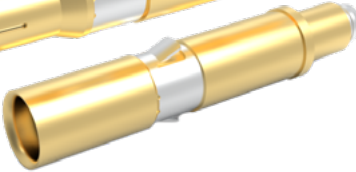
50 Ohm Mini Coaxial Patchcords and Contacts

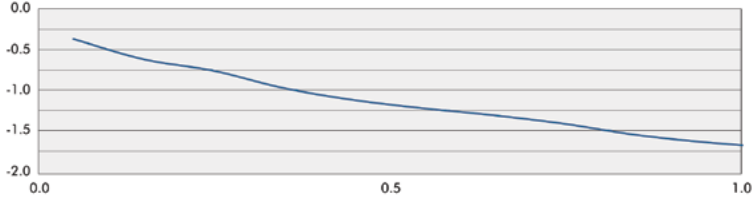
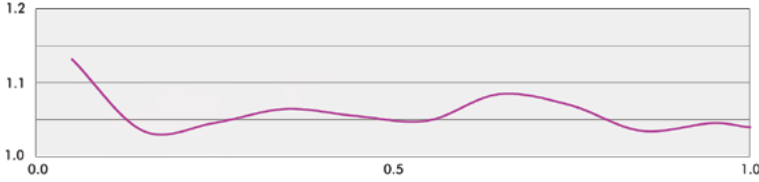
Contact Specifications	
Characteristic Impedance	50 Ω
Frequency Range	DC to 1 GHz
Insertion Loss	1.2 dB @ 1 GHz 1.02 dB @ 500 Mhz
VSWR	≤ 1.06 @ 1 GHz
Operating Current	0.5 amps max. continuous
Contact Resistance	5 mΩ max.
Mating Force	1.5 lbs max. [.68 kg]
Dielectric Withstanding Voltage (DWV)	1500 VDC min.
Insulation Resistance	1000 MΩ min.
Contact Body	Shield – brass Center conductor – BeCu
Contact Plating	Shield – 30μ" Au over 100μ" Ni Shield (610 103 115/130/136) – 30μ" Au over 100μ" Ni Center conductor – 60μ" Au over 100μ" Ni
Cycle Life	20,000 cycles

ITA Contact
Part # 610 103 115



Receiver Contact
Part # 610 104 114



Mini Coaxial RF Response 50 Ohm impedance RG316 & 178 style de-embedded cable (contact only)	Insertion Loss (dB)	
	VSWR Ratio	

50 Ohm Mini Coaxial Patchcords & Contacts



Mini Coaxial Receiver Patchcord		Mini Coaxial ITA Patchcord
Part #	Description	Used in Module
MINI COAXIAL RECEIVER CONTACTS		
610 104 114	Mini Coaxial Contact, Receiver, RG316	510 104 120/150/243/301 510 160 102/103/104
610 104 140	Mini Coaxial Contact, Receiver, with Two .025" Square Posts for Wire Wrap	510 104 120/150/243 510 160 102/103/104
610 104 141	Mini Coaxial Contact, Receiver, RG178	510 104 120/150/243/301 510 160 102/103/104
610 104 160	Mini Coaxial Contact, Receiver, Right Angle Posts for PCB Mount	510 104 280
610 104 149	Mini Coaxial Contact, Receiver, RG316 Double Shield	510 104 120/150/243 510 160 102/103/104
MINI COAXIAL ITA CONTACTS		
610 103 115	Mini Coaxial Contact, ITA, RG316	510 108 111/132/210/276 510 161 102/103/104
610 103 129	Mini Coaxial Contact, ITA, with Two .025" Square Posts for Wire Wrap	510 108 111/132/210 510 161 102/103/104
610 103 130	Mini Coaxial Contact, ITA, RG178	510 108 111/132/210/276 510 161 102/103/104
610 103 136	Mini Coaxial Contact, ITA, 24 AWG	510 108 111/132/210/276 510 161 102/103/104
610 103 150	Mini Coaxial Contact, ITA, with One .025" Round Post and One .02" square post, .075" Spacing	510 108 111/132/210 510 161 102/103/104
610 103 152	Mini Coaxial Contact, ITA, RG316 Double Shield	510 108 111/132/210 510 161 102/103/104
610 103 161	Mini Coaxial Contact, ITA, 24 & 26 AWG Twisted Pair	510 108 111/132/210/276 510 161 102/103/104
610 103 172	Mini Coaxial Contact, ITA, 22 AWG	510 108 111/132/210/276 510 161 102/103/104
610 103 184	Mini Coaxial Contact, ITA, 22 AWG, Twisted Pair	510 108 111/132/210 510 161 102/132/210
MINI COAXIAL RECEIVER AND ITA PATCHCORDS		
7-332 116 000-036	Coaxial, Patchcord, Receiver, Mini Coaxial, 50 Ohm, 36", RG316 Tan, Single Ended	510 104 120/150/243/301 510 160 102/103/104
7-334 178 000-036	Coaxial, Patchcord, Receiver, Mini Coaxial, 50 Ohm, 36", RG178 Tan, Single Ended	510 104 120/150/243/301 510 160 102/103/104
7-331 116 000-036	Coaxial, Patchcord, ITA, Mini Coaxial, 50 Ohm, 36", RG316 Tan, Single Ended	510 108 111/132/210/276 510 161 102/103/104
7-333 178 000-036	Coaxial, Patchcord, ITA, Mini Coaxial, 50 Ohm, 36", RG178 Tan, Single Ended	510 108 111/132/210/276 510 161 102/103/104
7-335 924 000-036	Coaxial, Patchcord, ITA, Mini Coaxial, 50 Ohm, 36", 24 AWG, Single Ended	510 108 111/132/210/276 510 161 102/103/104

50 Ohm Mini Coaxial Solder Sleeve Patchcords & Contacts

Contact Specifications	
Characteristic Impedance	50 Ω
Frequency Range	DC to 2 GHz
Insertion Loss	.05 dB @ 500 Mhz ≥ −0.3 dB @ 2 GHz
VSWR	≤ 1.2 @ 2 GHz
Operating Current	.5 amp max. continuous
Contact Resistance	5 mΩ max.
Mating Force	1.5 lbs max. [.68 kg]
Dielectric Withstanding Voltage (DWV)	1500 VDC min.
Insulation Resistance	1000 MΩ min.
Contact Body	Shield – brass Center Conductor – BeCu
Contact Plating	Shield – RCV•30μ" Au over 100μ" Ni ITA•50μ" Au over 100μ" Ni Center conductor – 60μ" Au over 100μ" Ni
Cycle Life	20,000 cycles

Receiver Contact
Part # 610 104 142

ITA Contact
Part # 610 103 140

Mini Coaxial Solder Sleeve RF Response
50 Ohm impedance
RG316 & 178 style de-embedded cable (contact only)

Insertion Loss (dB) vs Frequency (GHz): The graph shows a noisy line fluctuating between -0.1 dB and -0.3 dB across the frequency range from 0.0 to 2.0 GHz.

VSWR Ratio vs Frequency (GHz): The graph shows a line starting at 1.0 and rising to approximately 1.2 across the frequency range from 0.0 to 2.0 GHz.

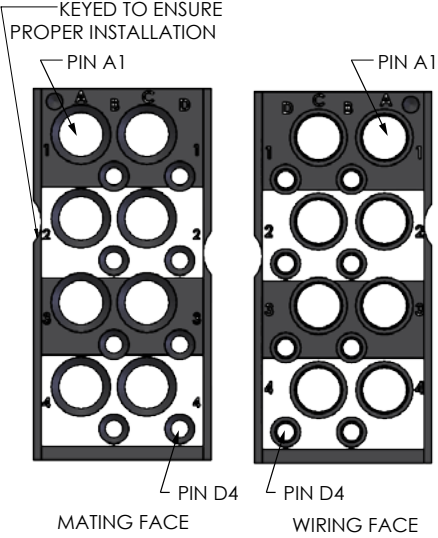
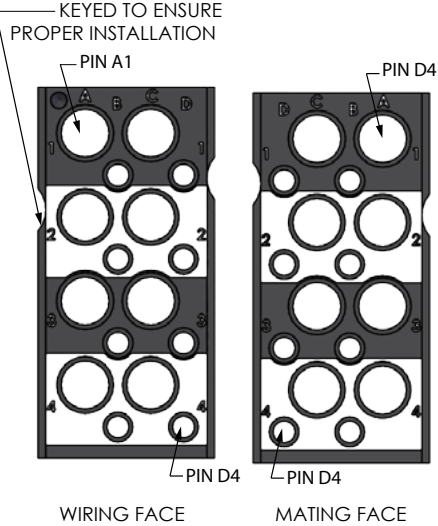
Part #	Description	Used in Module
50 OHM MINI COAX SOLDER SLEEVE RECEIVER CONTACT		
610 104 142	Mini Coaxial Contact, Receiver, Solder Sleeve, RG316 & RG178	510 104 120/150/243 510 160 102/103/104
50 OHM MINI COAX SOLDER SLEEVE ITA CONTACT		
610 103 140	Mini Coaxial Contact, ITA, Solder Sleeve, RG316 & RG178	510 108 111/132/210 510 161 102/103/104

Mini Coaxial Solder Sleeve Patchcords & Mini Coaxial Tools

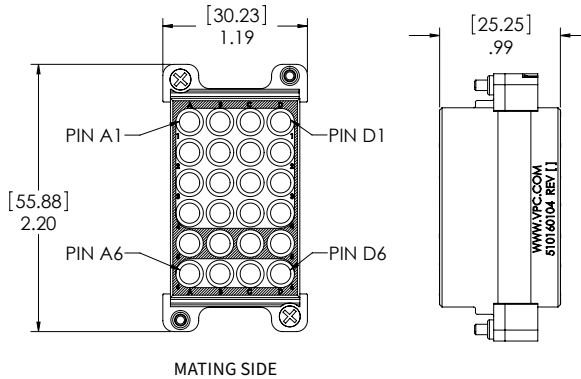
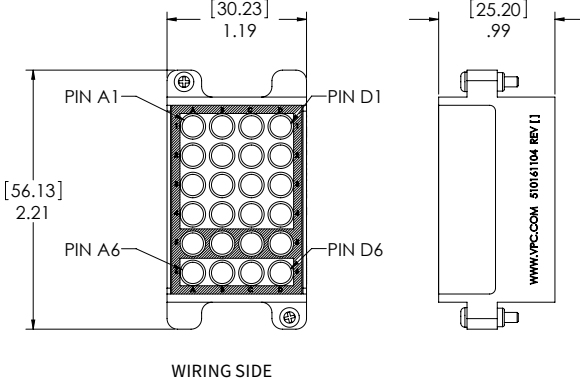


Mini Coaxial Solder Sleeve Receiver Patchcord		Mini Coaxial Solder Sleeve ITA Patchcord	
Part #	Description	Used in Module	
50 OHM MINI COAX SOLDER SLEEVE RECEIVER AND ITA PATCHCORDS			
7-338 116 000-036	Mini Coaxial Solder Sleeve Patchcord, Receiver, 50 Ohm, 36", RG316, Single Ended	510 104 120/150/243 510 160 102/103/104	
7-338 178 000-036	Mini Coaxial Solder Sleeve Patchcord, Receiver, 50 Ohm, 36", RG178, Single Ended	510 104 120/150/243 510 160 102/103/104	
7-339 116 000-036	Mini Coaxial Solder Sleeve Patchcord, ITA, 50 Ohm, 36", RG316, Single Ended	510 108 111/132/243 510 161 102/103/104	
7-339 178 000-036	Mini Coaxial Solder Sleeve Patchcord, ITA, 50 Ohm, 36", RG178, Single Ended	510 108 111/132/243 510 161 102/103/104	
* To instantly design patchcords online, use our Patchcord Designer at vpc.com/patchcorddesigner .			
Part #	Description	Used on Contact	
CRIMP TOOLS			
910 101 115	Tool, Crimp, Coaxial Contacts	610 103 115/130/152/157/161 610 104 114/141/149 610 103 136/161/172/184	
910 101 118	Tool, Crimp, Coaxial Contacts, ITA, 24 AWG Wire		
LOCATOR			
910 104 128	Tool, Locator, Coaxial Contacts, 24 AWG Wire	610 103 136/161/172/184	
EXTRACTION TOOL			
910 112 104	Tool, Extraction, Mini Power/Mini Coaxial/Mini Pneumatic Contacts, Receiver and ITA	610 103 115/129/130 610 103 136/140/150/152/161/172 610 104 114/140/141/142/149	
MINI COAXIAL FORMING TOOLS			
910 121 119	Tool, Center Conductor Forming, Mini Coaxial, Receiver (used before assembly)	610 104 114/141	
910 121 126	Tool, Outer Shield Conductor Forming, Mini Coaxial, ITA	610 103 115/129/130/136 610 103 140/150/152/161 610 103 115/129/130/136 610 103 140/150/152/161 610 104 114/141/149	
910 121 142	Tool, Outer Shield Conductor Expanding, Mini Coaxial, ITA		
910 121 143	Tool, Center Conductor Enlarging, Mini Coaxial, Receiver		
MINI COAXIAL INSPECTION TOOLS			
910 121 131	Tool, Weight Gage Kit, Mini Coaxial, Receiver	610 104 114/140/141/142/149	
910 121 155	Tool, Weight Gage Kit, Mini Coaxial, ITA	610 103 115/129/130/136/140 610 103 150/152/161 610 104 114/140/141/142/149 610 103 115/129/130/136 610 103 140/150/152/161	
910 121 156	Tool, Inspection Depth Gauge, Mini Coaxial, Receiver		
910 121 157	Tool, Inspection Depth Gauge, Mini Coaxial, ITA		
MISCELLANEOUS TOOLS			
910 121 144	Tool, Solder Kit, Mini Coaxial Contacts with Solder Sleeve (includes Raychem Holding Fixture AD-1319)	610 103 140/158 610 104 142	
910 121 149	Tool, Adapter for Raychem Holding Fixture (AD-1319-29)	610 103 140/158 610 104 142	
910 121 160	Tool, Steinel Heat Gun with Nozzle – 110V	610 103 140/158 610 104 142	
910 121 167	Tool, Steinel Heat Gun with Nozzle – 220V	610 103 140/158 610 104 142	

TriPaddle/Mini Power & Mini Coaxial Module

Specifications			
Material	G10 epoxy glass		
Operating Temperature	-40°C to 125°C		
Dielectric Withstanding Voltage (DWV)	1500 VDC min.		
Available Contact Positions	8/8		
Module Positions Needed	1		
			
Receiver • Part # 510 143 005		ITA • Part # 510 144 005	
Part #	Description	Contacts Used	
510 143 005	I2 MX RECEIVER TRIPADDLE SIGNAL/MINI POWER AND MINI COAXIAL MODULE INSERT TriPaddle Signal/Mini Power and Mini Coax, Module Insert, Receiver, i2 MX, 8/8 Position	MINI POWER MICRO COAX	
		610 110 101	610 116 112
		610 110 177	610 104 114
		610 110 128	610 104 140
		610 110 167	610 104 141
510 144 005	I2 MX ITA TRIPADDLE SIGNAL/MINI POWER AND MINI COAXIAL MODULE INSERT TriPaddle Signal/Mini Power and Mini Coax, Module Insert, ITA, i2 MX, 8/8 Position	TRIPADDLE MINI POWER MICRO COAX	
		610 110 108	610 115 124
			610 115 125
		610 110 129	610 103 115
		610 110 169	610 103 130 610 103 136 610 103 161

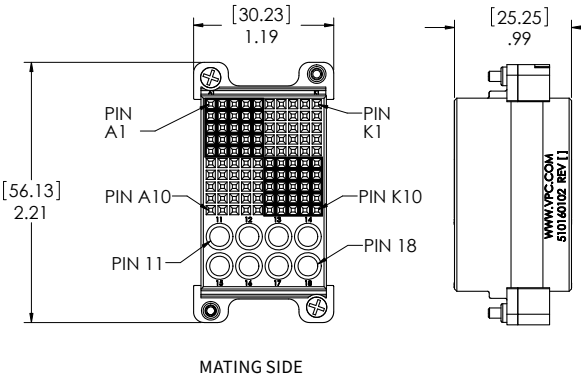
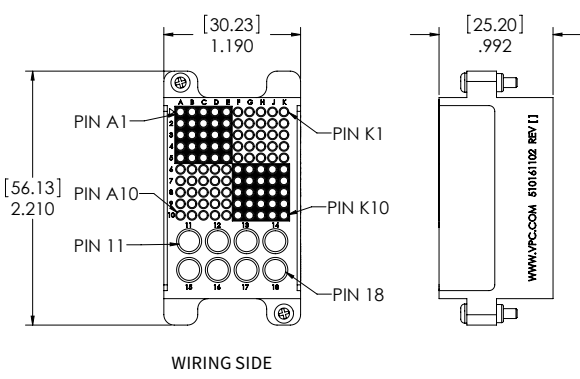
Mini Power & Mini Coaxial Module

Module Specifications			
Material	Black high-temp thermoplastic		
Temperature	Operating • -55° C to 125° C Non-operating • -65° C to 220° C		
Dielectric Withstanding Voltage (DWV)	1500 VDC		
Available Contact Positions	24		
Module Positions Needed	1		
			
 MATING SIDE  WIRING SIDE			
Receiver • Part # 510 160 104			
ITA • Part # 510 161 104			
Part #	Description	Contacts Used	
510 160 104	ICON RECEIVER MINI POWER AND MINI COAXIAL MODULE Mini Power and Mini Coaxial Module, Receiver, iCon, 24 Position	MINI POWER	MINI COAX
		610 116 112	610 104 114 610 104 140 610 104 141 610 104 142 610 104 149
510 161 104	ICON ITA MINI POWER AND MINI COAXIAL MODULE Mini Power and Mini Coaxial Module, ITA, iCon, 24 Position	610 115 124 610 115 125	610 103 115 610 103 129 610 103 130 610 103 136 610 103 140 610 103 150 610 103 152 610 103 161 610 103 172 610 103 189
NOTE: Mini Pneumatic contacts (610 132 106 and 610 131 108) and Fiber Optic patchcords can be used with these modules. NOTE: Refer to User's Manual for power applications with this module.			

QuadraPaddle/Mini Power & Mini Coaxial Module

Module Specifications	
Material	Black high-temp thermoplastic
Temperature	Operating • -55° C to 125° C Non-operating • -65° C to 220° C
Dielectric Withstanding Voltage (DWV)	1500 VDC min.
Available Contact Positions	100/8
Module Positions Needed	1



	
MATING SIDE	WIRING SIDE

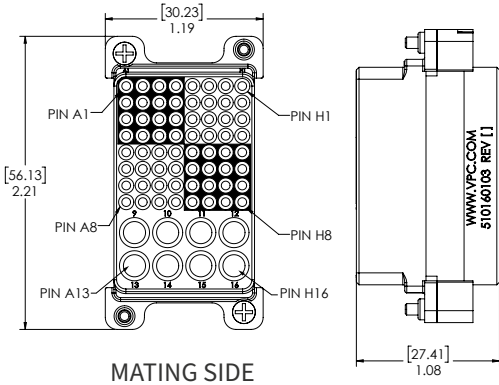
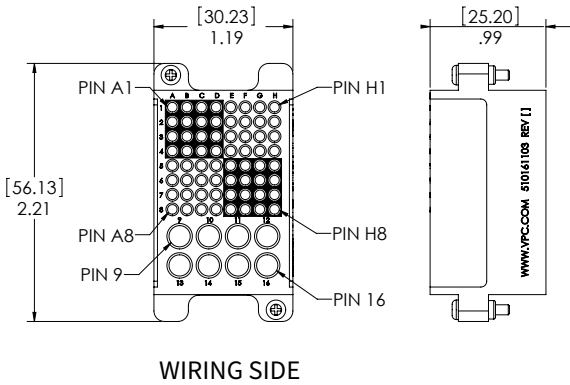
Receiver • Part # 510 160 102		ITA • Part # 510 161 102		
Part #	Description	Contacts Used		
510 160 102	ICON RECEIVER QUADRAPADDLE/MINI POWER AND MINI COAXIAL MODULE QuadraPaddle Signal/Mini Power and Mini Coaxial Module, Receiver, iCon, 100/8 Position	QUADRAPADDLE	MINI POWER	MINI COAX
		610 138 216	610 116 112	610 104 114 610 104 140 610 104 141 610 104 142 610 104 149
510 161 102	ICON ITA QUADRAPADDLE/MINI POWER AND MINI COAXIAL MODULE QuadraPaddle Signal/Mini Power and Mini Coaxial Module, ITA, iCon, 100/8 Position	610 138 109	610 115 124	610 103 115
		610 138 122	610 115 125	610 103 129
		610 138 112		610 103 130
		610 138 115		610 103 136 610 103140 610 103 150 610 103 152 610 103 161 610 103 172 610 103 184

NOTE: Mini Pneumatic contacts (610 132 106 and 610 131 108) and Fiber Optic patchcords can be used with these modules.

TriPaddle/Mini Power & Mini Coaxial Modules

Module Specifications			
Material	Black high-temp thermoplastic		
ITA Material	Black filled black thermoplastic		
Temperature	Operating • -55° C to 125° C Non-operating • -65° C to 220° C		
ITA Temperature	Operating • -55° C to 125° C Non-operating • -55° C to 140° C		
Dielectric Withstanding Voltage (DWV)	1500 VDC min.		
Available Contact Positions	64/8		
Module Positions Needed	1		



 MATING SIDE	 WIRING SIDE
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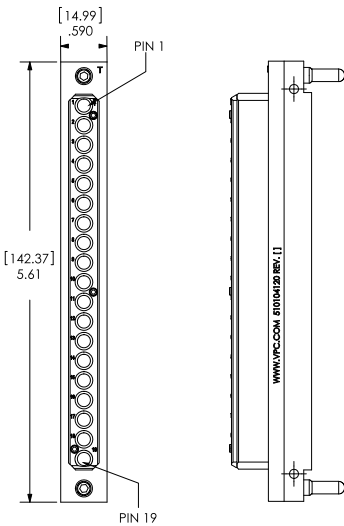
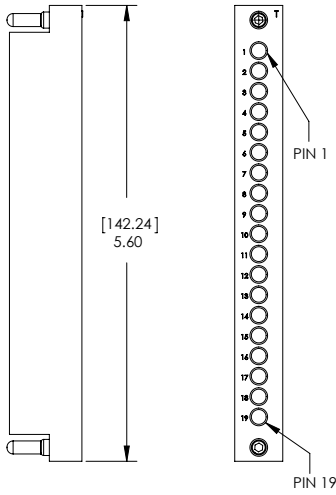
Receiver • Part # 510 160 103		ITA • Part # 510 161 103	
Part #	Description	Contacts Used	
ICON RECEIVER TRIPADDLE SIGNAL/Mini POWER AND Mini COAXIAL MODULE 510 160 103 TriPaddle Signal/Mini Power and Mini Coaxial Module, Receiver, iCon, 64/8 Position		TRIPADDLE	MINI POWER MINI COAX
		610 110 101 610 110 128 610 110 167 610 110 177 610 110 179	610 116 112 610 104 114 610 104 140 610 104 141 610 104 142 610 104 149
ICON ITA TRIPADDLE SIGNAL/Mini POWER AND Mini COAXIAL MODULE 510 161 103 TriPaddle Signal/Mini Power and Mini Coaxial Module, ITA, iCon, 64/8 Position		610 110 108 610 110 113 610 110 129 610 110 169	610 115 124 610 115 125 610 103 115 610 103 129 610 103 130 610 103 136 610 103 140 610 103 150 610 103 152 610 103 161 610 103 172 610 103 184

NOTE: Mini Pneumatic contacts (610 132 106 and 610 131 108) and Fiber Optic patchcords can be used with these modules.

Mini Coaxial Module

Module Specifications		
Material	Black PPS	
Temperature	Operating • -55° C to 125° C Non-operating • -65° C to 225° C	
Dielectric Withstanding Volt- age (DWV)	1500 VDC min.	
Available Contact Positions	19	
Module Positions Needed	1	



 MATING SIDE	 WIRING SIDE
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Receiver • Part # 510 104 120		ITA • Part # 510 108 111
Part #	Description	Contacts Used
MINI COAXIAL RECEIVER MODULES AND STRAIN RELIEFS 510 104 120 Mini Coaxial Module, Receiver, 19 Position 510 109 116 Strain Relief Plate for Select Receiver Modules		610 104 114/140/141/142/149
MINI COAXIAL ITA MODULES AND STRAIN RELIEFS 510 108 111 Mini Coaxial Module, ITA, 19 Position 510 109 296 Strain Relief Plate for ITA Modules		610 103 115/129/130/136/140/150/ 152/161/172/184

NOTE: Mini Pneumatic contacts (610 132 106 and 610 131 108) and Fiber Optic patchcords can be used with these modules.

Mini Coaxial Module

Module Specifications

Receiver Material	G10 epoxy glass
Receiver Temperature	Operating • -55° C to 125° C Non-operating • -55° C to 140° C
ITA Material	G10 epoxy glass
ITA Temperature	Operating • -55° C to 125° C Non-operating • -55° C to 140° C
Dielectric Withstanding Volt- age (DWV)	1500 VDC min.
Available Contact Positions	37
Module Positions Needed	1



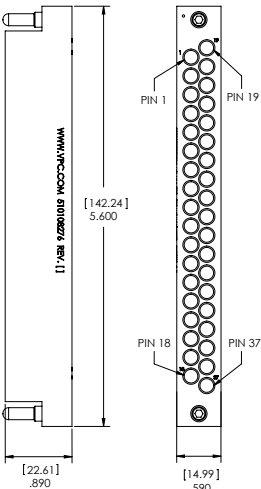
Receiver • Part # 510 104 301

Part #	Description	Contacts Used
MINI COAXIAL RECEIVER MODULES AND STRAIN RELIEFS		
510 104 301	Mini Coaxial Module, Receiver, 37 Position	610 104 114/141
510 109 298	Strain Relief Plate for Select Receiver Modules	
MINI COAXIAL ITA MODULES AND STRAIN RELIEFS		
510 108 276	Mini Coaxial Module, ITA, 37 Position	610 103 115/130/136/161/ 172/184
510 109 296	Strain Relief Plate for ITA Modules	

NOTE: It is not recommended to use Mini Power contacts in a Mini Coax module, which can create performance issues and potentially damage contacts.

NOTE: Fiber Optic patchcords can be used with these modules.

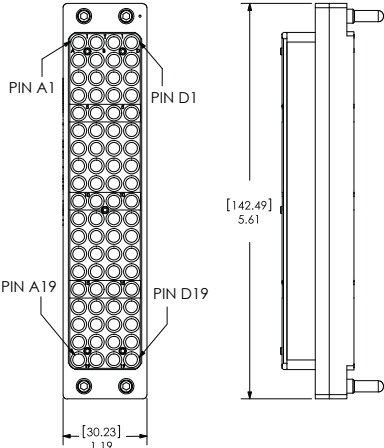
ITA • Part # 510 108 276



Mini Coaxial Module

Module Specifications

Material	Black PPS
Temperature	Operating • -55° C to 125° C Non-operating • -65° C to 225° C
Dielectric Withstanding Volt- age (DWV)	1500 VDC min.
Available Contact Positions	76
Module Positions Needed	2

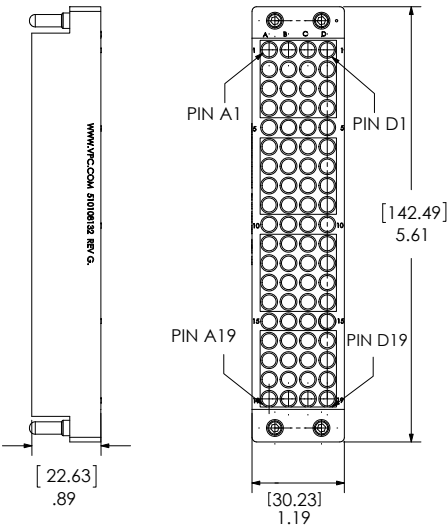


Receiver • Part # 510 104 150

Part #	Description	Contacts Used
MINI COAXIAL RECEIVER MODULES AND STRAIN RELIEFS		
510 104 150	Mini Coaxial Module, Receiver, 76 Position	610 104 114/140/141/142/149
510 109 298	Strain Relief Plate for Select Receiver Modules	
MINI COAXIAL ITA MODULES AND STRAIN RELIEFS		
510 108 132	Mini Coaxial Module, ITA, 76 Position	610 103 115/129/130/136/140/ 150/152/161/172/184
510 109 296	Strain Relief Plate for ITA Modules	

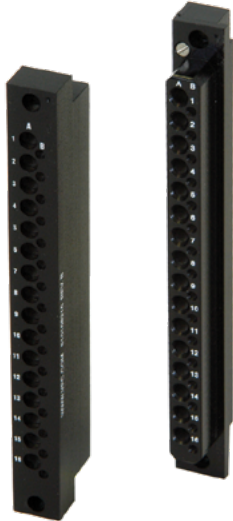
NOTE: Mini Pneumatic contacts (610 132 106 and 610 131 108) and Fiber Optic patchcords can be used with these modules.

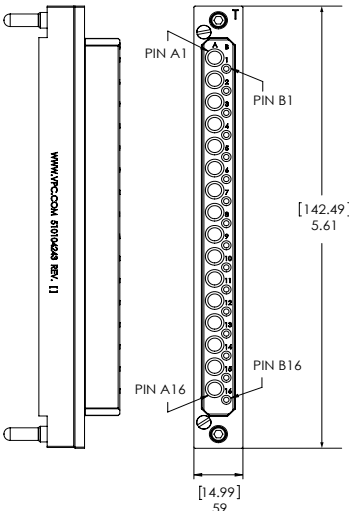
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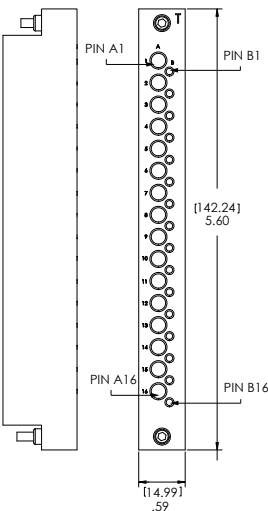


TriPaddle/Mini Coaxial Module

Module Specifications		
Material	Black PPS	
Temperature	Operating • -55° C to 125° C Non-operating • -65° C to 220° C	
Dielectric Withstanding Volt-age (DWV)	1500 VDC min.	
Available Contact Positions	16 signal, 16 Mini Coax	
Module Positions Needed	1	







Receiver • Part # 510 104 243		ITA • Part # 510 108 210
Part #	Description	Contacts Used
TRIPADDLE SIGNAL/MINI COAXIAL RECEIVER MODULES AND STRAIN RELIEFS		
510 104 243	TriPaddle Signal/Mini Coax Module, Receiver, 16/16 Position	610 104 114/140/141/142/149
510 109 116	Strain Relief Plate for Select Receiver Modules	610 110 101/104/128/167/177/179
TRIPADDLE SIGNAL/MINI COAXIAL ITA MODULES AND STRAIN RELIEFS		
510 108 210	TriPaddle Signal/Mini Coax Module, ITA, 16/16 Position	610 103 115/129/130/136/140/150/152/161/172/184
510 109 296	Strain Relief Plate for ITA Modules	610 110 108/113/129/169

Right Angle Mini Coaxial Contact and Module

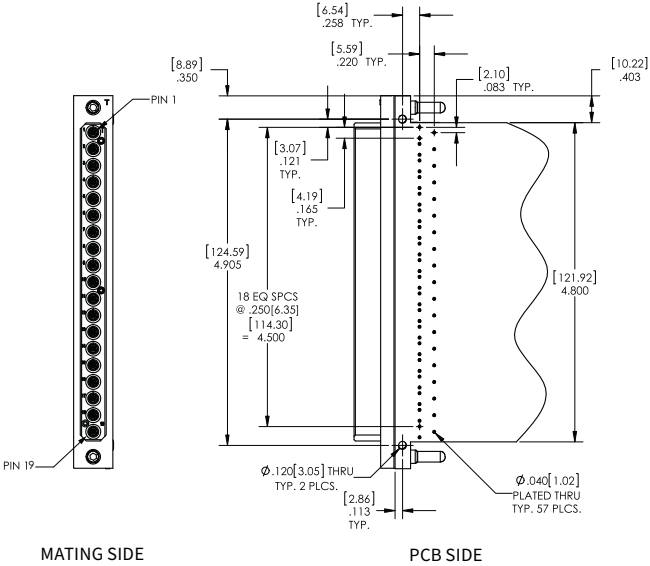
Contact Specifications	
Characteristic Impedance	50 Ω
Frequency Range	DC to 1 GHz
Insertion Loss	-0.885 dB @ 1 GHz
VSWR	1.445 @ 1 GHz
Operating Voltage and Current	0.5 amps max. continuous
Contact Resistance	5 mΩ max.
Mating Force	1.5 lbs max. [.68 kg]
Dielectric Withstanding Voltage (DWV)	1500 VDC min.
Insulation Resistance	1000 MΩ min.
Contact Body Material	Shield - brass Center Conductor - BeCu
Contact Plating	Shield - 50μ" Au over 100μ" Ni Center Conductor - 60μ" Au over 100μ" Ni
Cycle Life	20,000 cycles



Right Angle Mini Coaxial Receiver Contact
Part # 610 104 160



19 Position Right Angle Coaxial Module (Customer Supplied PCB) **Part # 510 104 280**



Part #	Description	Used in Module
RIGHT ANGLE MINI COAXIAL CONTACT		
610 104 160	Mini Coaxial Contact, Receiver, Right Angle Posts for PCB Mount	510 104 280
MINI COAXIAL MODULE		
510 104 280	Mini Coaxial Module, Receiver, 19 Positions, Loaded with Right Angle Contacts (610 104 160)	

Micro Power Contacts and Patchcords

Contact Specifications	
Operating Current	21 amp continuous
Contact Resistance	1.5 mΩ max.
Mating Force	2.0 lbs max. [.91 kg]
Dielectric Withstanding Voltage (DWV)	1500 VDC min.
Contact Body Material	Brass
Contact Plating	30μ" Au over 100μ" Ni
Cycle Life	10,000 cycles

ITA Contact
Part # 610 143 101

Receiver Contact
Part # 610 142 101

Micro Power Contact 610 142 101/610 143 101
T-Rise Test (12 AWG)

Part #	Description	Used in Module
MICRO POWER RECEIVER CONTACTS		
610 142 101	Micro Power Contact, Receiver, 12-14 AWG, Crimp	510 104 267/270/306 510 160 106/107/111/112/113
610 142 102	Micro Power Contact, Receiver, PCB Mount	510 104 267/270/306 510 160 106/107/111/112/113
MICRO POWER ITA CONTACTS		
610 143 101	Micro Power Contact, ITA, 12-14 AWG, Crimp	510 108 262/263 510 161 106/107/111
MICRO POWER RECEIVER AND ITA PATCHCORDS		
7-252 912 000-036	Power Patchcord, Receiver, Micro Power, 36", 12 AWG White, Single Ended	510 104 267/270/306 510 160 106/107/111/112/113
7-251 912 000-036	Power Patchcord, ITA, Micro Power, 36", 12 AWG White, Single Ended	510 108 262/263 510 161 106/107/111
CRIMP TOOLS		
910 101 102	Tool, Crimp, 10 Amp TriPaddle, Thermocouple, Micro Power, Receiver and ITA, Locator Required	
910 104 144	Tool, Locator, Micro Power, ITA	
910 104 145	Tool, Locator, Micro Power, Receiver	
EXTRACTION TOOL		
910 112 123	Tool, Extraction, Micro Power/Micro Coaxial Contacts	

Micro Coaxial Contacts and Patchcords

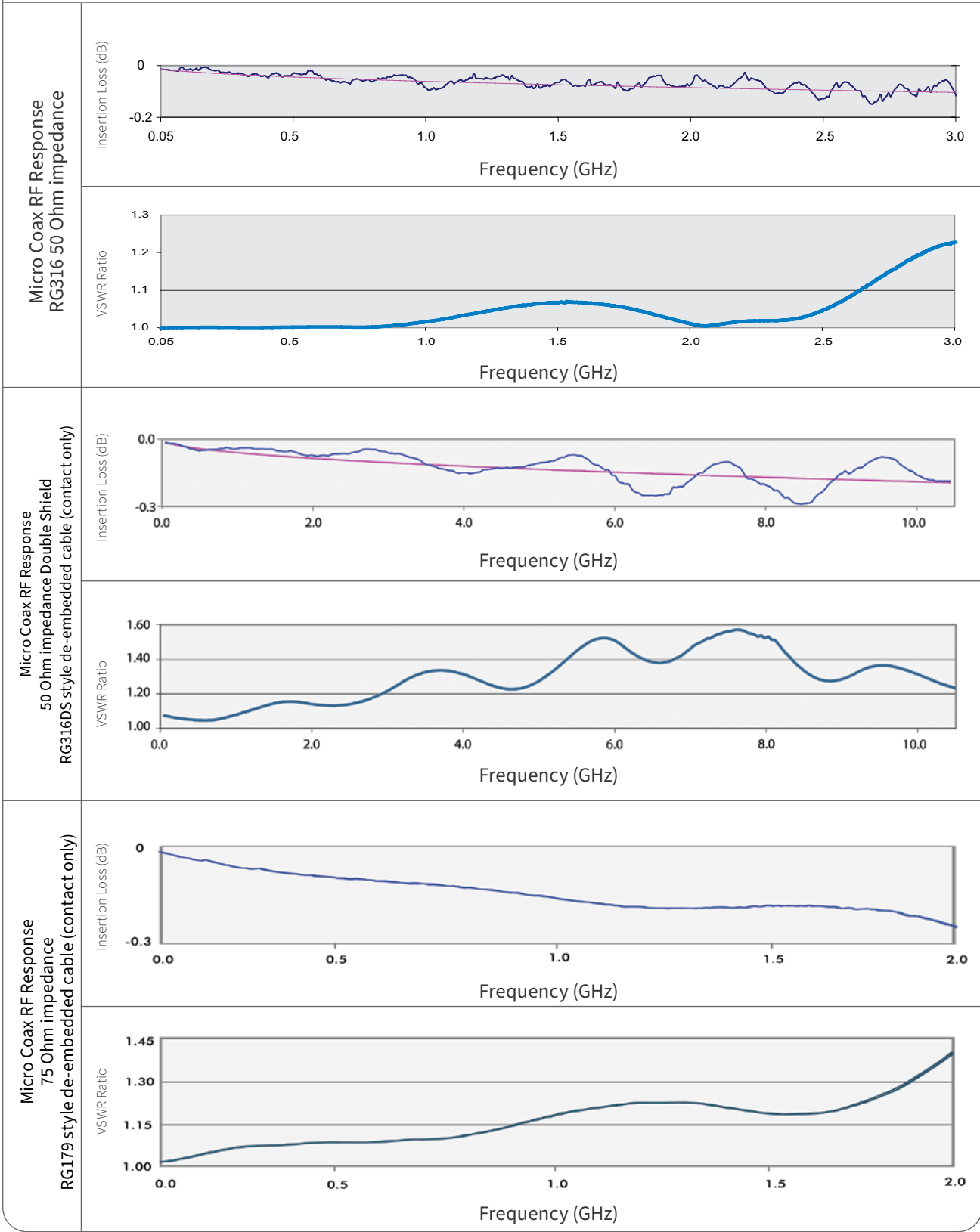
Contact Specifications	
Characteristic Impedance	50 Ω 75 Ω • for RG179 50 Ω • for RG316 double shield
Frequency Range	DC – 3 GHz • 50 Ω DC – 2 GHz • for RG179 DC – 10.5 GHz • for RG316 double shield
Contact Isolation	–90 dB minimum
VSWR	1.22 @ 3 GHz • 50 Ω 1.39 @ 2 GHz • for RG179 1.0225 ±.05 f(GHz) • for RG316 double shield
Mating Force	1.5 lbs max. [.68 kg]
Insertion Loss	– √f(GHz) x .06 dB
Dielectric Withstanding Voltage (DWV)	800 volts RMS
Contact Plating	50μ" Au over 100μ" Ni
Cycle Life	10,000 cycles

ITA Contact
Part # 610 141 XXX

Receiver Contact
Part # 610 140 XXX

Part #	Description	Used in Module
MICRO COAXIAL RECEIVER CONTACTS		
610 140 101	Micro Coaxial Contact, Receiver, RG316, Crimp	510 104 267/270/306 510 160 106/107/111/112/113
610 140 102	Micro Coaxial Contact, Receiver, RG178, Crimp	510 104 267/270/306 510 160 106/107/111/112/113
610 140 103	Micro Coaxial Contact, Receiver, RG179, Crimp	510 104 267/270/306 510 160 106/107/111/112/113
610 140 104	Micro Coaxial Contact, Receiver, RG316 Double Shield, Solder	510 104 267/270/306 510 160 106/107/111/112/113
MICRO COAXIAL ITA CONTACTS		
610 141 101	Micro Coaxial Contact, ITA, RG316, Crimp	510 108 262/263 510 161 106/107/111
610 141 102	Micro Coaxial Contact, ITA, RG178, Crimp	510 108 262/263 510 161 106/107/111
610 141 103	Micro Coaxial Contact, ITA, RG179, Crimp	510 108 262/263 510 161 106/107/111
610 141 104	Micro Coaxial Contact, ITA, RG316 Double Shield, Solder	510 108 262/263 510 161 106/107/111

Micro Coaxial Contacts and Patchcords



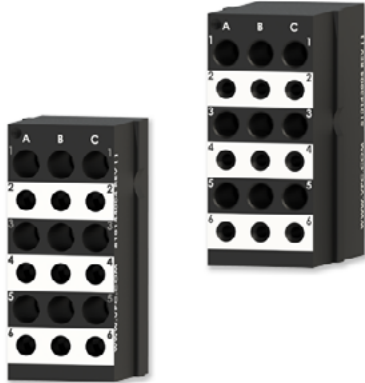
Micro Coaxial Patchcords and Tools

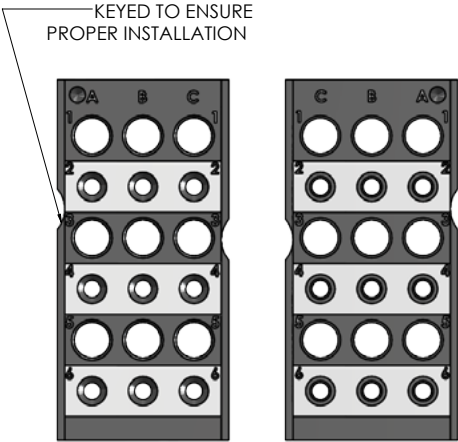
Micro Coaxial Receiver Patchcord		Micro Coaxial ITA Patchcord	
Part #	Description	Used in Module	
MICRO COAXIAL RECEIVER AND ITA PATCHCORDS			
7-362 116 000-036	Coaxial Patchcord, Receiver, Micro Coaxial, 50 Ohm, 36", RG316 Tan, Single Ended	510 104 267/270/306 510 160 106/107/111/112/113	
7-364 178 000-036	Coaxial Patchcord, Receiver, Micro Coaxial, 36", RG178BU Tan, Single Ended	510 104 267/270/306 510 160 106/107/111/112/113	
7-366 179 000-036	Coaxial Patchcord, Receiver, Micro Coaxial, 36", RG179U Tan, Single Ended	510 104 267/270/306 510 160 106/107/111/112/113	
7-368 117 000-036	Coaxial Patchcord, Receiver, Micro Coaxial, 36", RG316 Double Shield Tan, Single Ended	510 104 267/270/306 510 160 106/107/111/112/113	
7-361 116 000-036	Coaxial Patchcord, ITA, Micro Coaxial, 36", RG316 Tan, Single Ended	510 108 262/263 510 161 106/107/111	
7-363 178 000-036	Coaxial Patchcord, ITA, Micro Coaxial, 36", RG178BU Tan, Single Ended	510 108 262/263 510 161 106/107/111	
7-365 179 000-036	Coaxial Patchcord, ITA, Micro Coaxial, 36", RG179U Tan, Single Ended	510 108 262/263 510 161 106/107/111	
7-367 117 000-036	Coaxial Patchcord, ITA, Micro Coaxial, 36", RG316 Double Shield Tan, Single Ended	510 108 262/263 510 161 106/107/111	
Part #	Description	Used on Contact	
CRIMP TOOLS			
910 101 131	Tool, Crimp, Micro Coaxial RG178, Receiver and ITA	610 140 102 & 610 141 102	
910 101 132	Tool, Crimp, Micro Coaxial RG179 & RG316, Receiver and ITA	610 140 101/103 610 141 101/103	
910 101 135	Tool, Locator, Micro Coaxial, Receiver	610 142 101/102	
910 101 139	Tool, Locator, Micro Coaxial, ITA	610 143 101	
INSPECTION TOOLS			
910 121 179	Tool, Inspection Depth Gage, Micro Coaxial, Receiver	610 140 101/102/103/104	
910 121 180	Tool, Inspection Depth Gage, Micro Coaxial, ITA	610 141 101/102/103/104	
EXTRACTION TOOL			
910 112 123	Tool, Extraction, Micro Power/Micro Coaxial Contacts	610 140 101/102/103/104 610 141 101/102/103/104	
SOLDERING FIXTURE			
910 121 178	Tool, Soldering Fixture, Micro Coaxial, Receiver and ITA	610 140 101/102/103/104 610 141 101/102/103/104	

TriPaddle/Micro Power and Micro Coax Module

Specifications

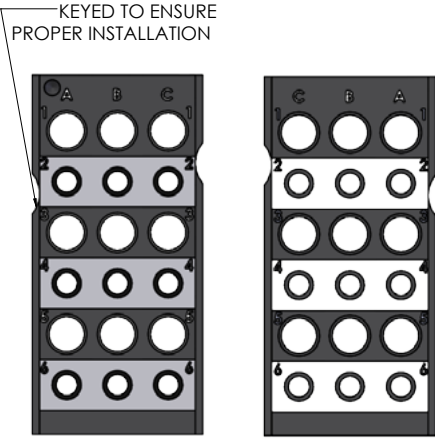
Material	G10 epoxy glass
Operating Temperature	-40°C to 125°C
Dielectric Withstanding Voltage (DWV)	1500 VDC min.
Available TriPaddle Positions	9
Available Micro Power/Micro Coax Positions	9
Module Positions Needed	1





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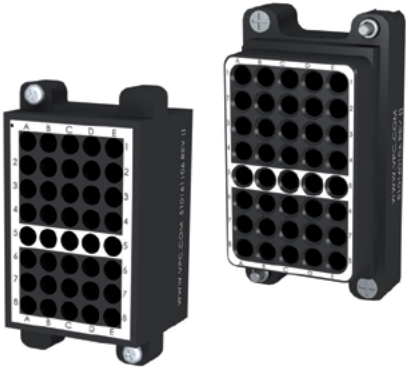
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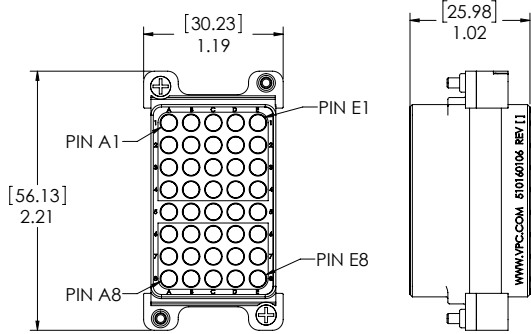
Receiver • Part # 510 143 004		ITA • Part # 510 144 004		
Part #	Description	Contacts Used		
I2 MX RECEIVER TRIPADDLE SIGNAL/MICRO POWER AND MICRO COAXIAL MODULE INSERT 510 143 004	TriPaddle Signal/Micro Power and Micro Coax, Module Insert, Receiver, i2 MX, 9/9 Position	TRIPADDLE	MICRO POWER	MICRO COAX
		610 110 101	610 142 101	610 140 101
		610 110 177		610 140 102
		610 110 128		610 140 103
		610 110 167		610 140 104
I2 MX ITA TRIPADDLE SIGNAL/MICRO POWER AND MICRO COAXIAL MODULE INSERT 510 144 004	TriPaddle Signal/Micro Power and Micro Coax, Module Insert, ITA, i2 MX, 9/9 Position	TRIPADDLE	MICRO POWER	MICRO COAX
		610 110 108	610 143 101	610 141 101
		610 110 129		610 141 102
		610 110 169		610 141 103
				610 141 104

Micro Power and Micro Coaxial Module

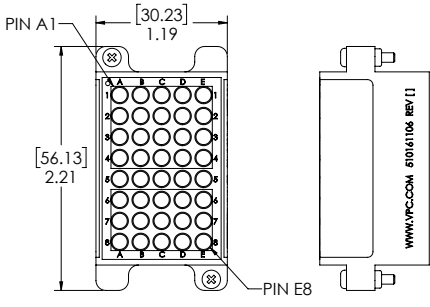
Module Specifications

Material	Black high-temp thermoplastic
Temperature	Operating • -55° C to 125° C Non-operating • -65° C to 220° C
Dielectric Withstanding Volt- age (DWV)	1500 VDC min.
Available Contact Positions	40
Module Positions Needed	1





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Receiver • Part # 510 160 106

ITA • Part # 510 161 106

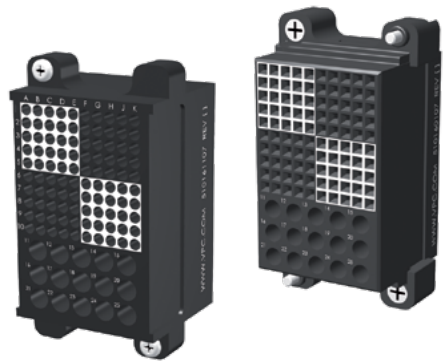
Part #	Description	Contacts Used	
		MICRO POWER	MICRO COAX
ICON RECEIVER MICRO POWER AND MICRO COAX MODULE			
510 160 106	Micro Power and Micro Coaxial Module, Receiver, iCon, 40 Position	610 142 101/102	610 140 101/102 610 140 103/104
ICON ITA MICRO POWER AND MICRO COAX MODULE			
510 161 106	Micro Power and Micro Coaxial Module, ITA, iCon, 40 Position	610 143 101	610 141 101/102 610 141 103/104

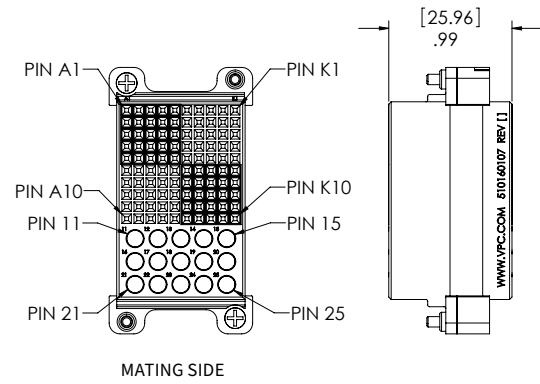
NOTE: Refer to User's Manual for power applications with this module.

QuadraPaddle/Micro Power and Micro Coaxial Module

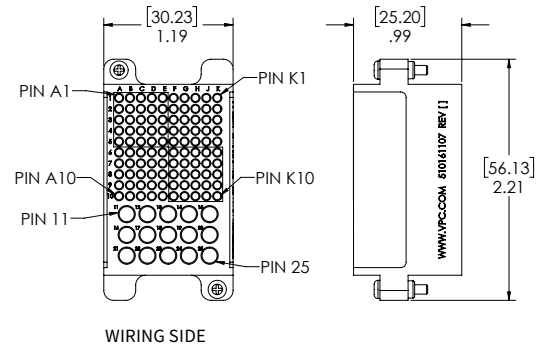
Module Specifications

Receiver/ITA Module Material	Black high-temp thermoplastic
Receiver/ITA Module Temperature	Operating • -55° C to 125° C Non-operating • -65° C to 220° C
Dielectric Withstanding Voltage (DWV)	1500 VDC min.
Available QuadraPaddle Positions	100
Available Micro Power/Micro Coaxial Positions	15
Module Positions Needed	1





MATING SIDE



WIRING SIDE

Receiver • **Part # 510 160 107**

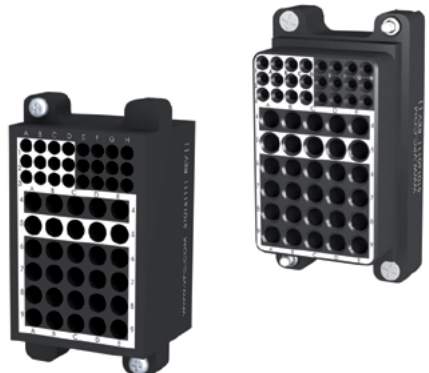
ITA • **Part # 510 161 107**

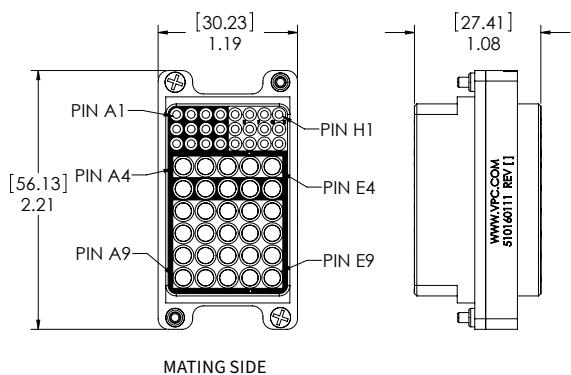
Part #	Description	Contacts Used		
		QUADRAPADDLE	MICRO POWER	MICRO COAX
ICON RECEIVER QUADRAPADDLE/MICRO POWER AND MICRO COAXIAL MODULE				
510 160 107	QuadraPaddle Signal / Micro Power and Micro Coaxial Module, Receiver, iCon, 100/15 Position, for Crimp Contacts	610 138 216	610 142 101	610 140 101
		610 138 116	610 142 102	610 140 102
510 160 112	QuadraPaddle Signal / Micro Power and Micro Coaxial Module, Receiver, iCon, 100/15 Position, with Twin Female Signal Contacts (610 138 200)			610 140 103
				610 140 104
		610 138 200	610 142 101	610 140 101
		610 138 117	610 142 102	610 140 102
		610 138 118		610 140 103
510 160 113	QuadraPaddle Signal / Micro Power and Micro Coaxial Module, Receiver, iCon, 100/15 Position, Fully Loaded with Twin Female Contacts and Round Posts (610138200 and 610138117)	610 138 100		610 140 104
		610 138 200	610 142 101	610 140 101
		610 138 117	610 142 102	610 140 102
				610 140 103
				610 140 104
ICON ITA QUADRAPADDLE/MICRO POWER AND MICRO COAXIAL MODULE				
510 161 107	QuadraPaddle Signal / Micro Power and Micro Coaxial Module, ITA, iCon, 100/15 Position			610 141 101
		610 138 109	610 143 101	610 141 102
		610 138 122		610 141 103
		610 138 112		610 141 104
		610 138 115		

TriPaddle/Micro Power and Micro Coaxial Module

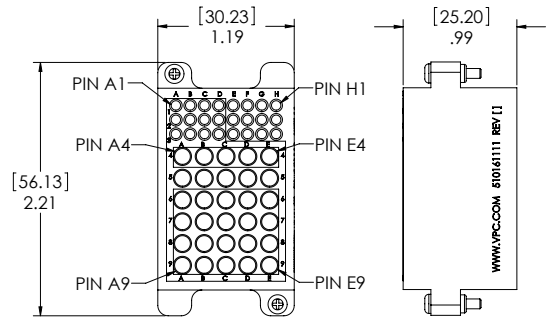
Module Specifications

Material	G10 epoxy glass
Temperature	Operating • -55° C to 125° C Non-operating • -55° C to 140° C
Dielectric Withstanding Voltage (DWV)	1500 VDC min.
Available Contact Positions	24/30
Module Positions Needed	1





MATING SIDE



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Receiver • **Part # 510 160 111**

ITA • **Part # 510 161 111**

Part #	Description	Contacts Used		
		TRIPADDLE	MICRO POWER	MICRO COAX
ICON RECEIVER TRIPADDLE SIGNAL/MICRO POWER AND MICRO COAXIAL MODULE				
510 160 111	TriPaddle Signal/Micro Power and Micro Coaxial Module, Receiver, iCon, 24/30 Position			610 140 101
				610 140 102
		610 110 101	610 142 101	610 140 101
		610 110 128	610 142 102	610 140 102
		610 110 167		610 140 103
		610 110 177		610 140 104
510 161 111	TriPaddle Signal/Micro Power and Micro Coaxial Module, ITA, iCon, 24/30 Position	610 110 179		
		610 110 108	610 143 101	610 141 101
		610 110 113		610 141 102
		610 110 129		610 141 103
		610 110 169		610 141 104

NOTE: Refer to User's Manual for power applications with this module.

Micro Power and Micro Coaxial Module

Module Specifications

Material	Black PPS
Temperature	Operating • -55° C to 125° C Non-operating • -55° C to 140° C
Dielectric Withstanding Volt- age (DWV)	1500 VDC min.
Available Contact Positions	50
Module Positions Needed	1

MATING SIDE

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Receiver • **Part # 510 104 267**

ITA • **Part # 510 108 262**

Part #	Description	Contacts Used
MICRO POWER AND MICRO COAXIAL RECEIVER MODULES		
510 104 267	Micro Power and Micro Coaxial Module, Receiver, 50 Position	610 140 101/102/103/104 610 142 101/102
510 109 282	Strain Relief Plate 90 Series Receiver, Module, 50 Position, Micro Power and Micro Coaxial	
510 109 298	Strain Relief Plate for Receiver Modules	
MICRO POWER AND MICRO COAXIAL ITA MODULES		
510 108 262	Micro Power and Micro Coaxial Module, ITA, 50 Position	610 141 101/102/103/104 610 143 101
510 109 548	Strain Relief Plate for ITA Modules	

Micro Power and Micro Coaxial Module

Module Specifications

Receiver Material	G10 epoxy glass
ITA Material	Black PPS
Receiver Temperature	Operating • -55° C to 125° C Non-operating • -55° C to 140° C
ITA Temperature	Operating • -55° C to 125° C Non-operating • -65° C to 220° C
Dielectric Withstanding Voltage (DWV)	1500 VDC min.
Available Contact Positions	120
Module Positions Needed	2

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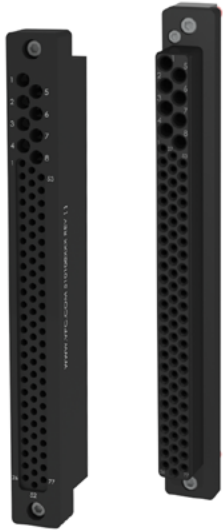
Receiver • **Part # 510 104 270**

ITA • **Part # 510 108 263**

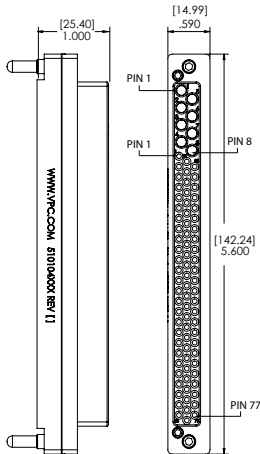
Part #	Description	Contacts Used
MICRO POWER AND MICRO COAXIAL RECEIVER MODULES		
510 104 270	Micro Power and Micro Coaxial Module, Receiver, 120 Position	610 140 101/102/103/104 610 142 101/102
510 109 298	Strain Relief Plate for Receiver Modules	
MICRO POWER AND MICRO COAXIAL ITA MODULES		
510 108 263	Micro Power and Micro Coaxial Module, ITA, 120 Position	610 141 101/102/103/104 610 143 101
510 109 296	Strain Relief Plate for ITA Modules	

TriPaddle / Micro Coax/Power Modules

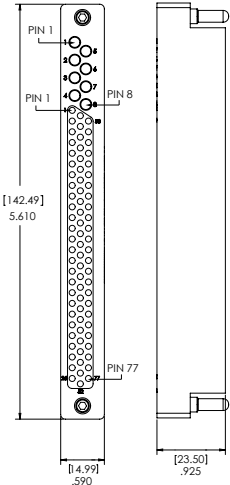
Module Specifications			
Receiver Material	G10 epoxy glass		
Receiver Temperature	Operating • -55° C to 125° C Non-operating • -55° C to 140° C		
ITA Material	G10 epoxy glass		
ITA Temperature	Operating • -55° C to 125° C Non-operating • -55° C to 140° C		
Dielectric Withstanding Volt- age (DWV)	1500 VDC min.		
Available Contact Positions	77 signal, 8 Micro Coax/Power		
Module Positions Needed	1		



Micro Coax/Power contacts occupy the top 8 positions.



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Receiver • Part # 510 104 306		ITA • Part # 510 108 278	
Part #	Description	Contacts Used	
TRIPADDLE SIGNAL/MICRO COAX RECEIVER MODULES		TRIPADDLE	MICO COAX/POWER
510 104 306	TriPaddle Signal/Micro Coax Module, Receiver, 77/8 Position	610 110 101/ 128/167/177/ 179	610 140 101/102/ 103/104 610 142 101/102
510 109 116	Strain Relief Plate for Select Receiver Modules		
TRIPADDLE SIGNAL/MICRO COAX ITA MODULES			
510 108 278	TriPaddle Signal/Micro Coax Module, ITA, 77/8 Position	610 110 108/ 113/129/169	610 141 101/102/ 103/104 610 143 101/102
510 109 296	Strain Relief Plate for ITA Modules		

High Power Contacts and Patchcords

Contact Specifications	
Operating Current	150 amp continuous (using 2 AWG wire)
Contact Resistance	.35 mΩ
Mating Force	2.5 lbs max. [1.13 kg]
Operating Voltage	600V
Operating Temperature	-40°C to 125 °C
T-Rise	+40°C at 150 amps +30°C at 125 amps
Contact Body Material	Cu alloy Internal contact beams - Cu alloy
Contact Plating	Body - 30μ" Au over 100μ" Ni Internal contact beams - 5μ" Ag over 50μ" Ni
Contact Termination	Crimp
Cycle Life	10,000 cycles

Receiver Contact

Part # 610 149 101

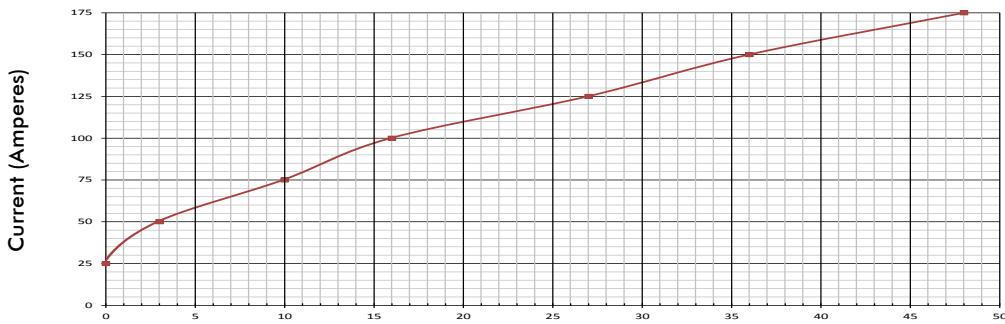


ITA Contact

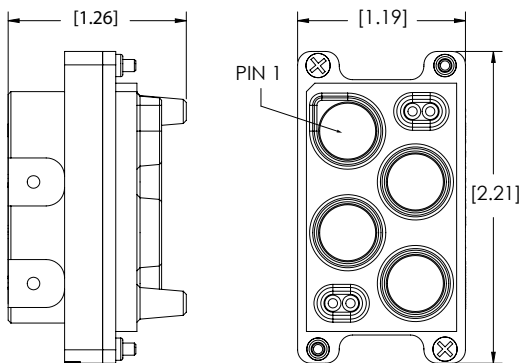
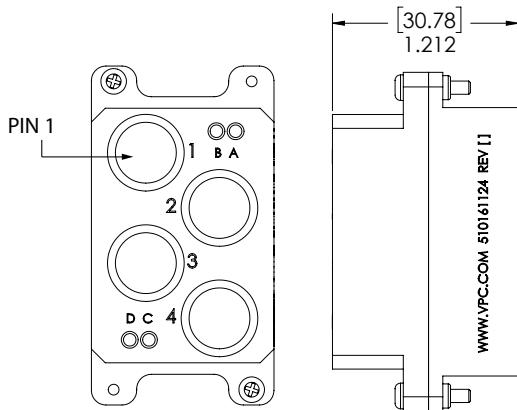
Part # 610 150 101



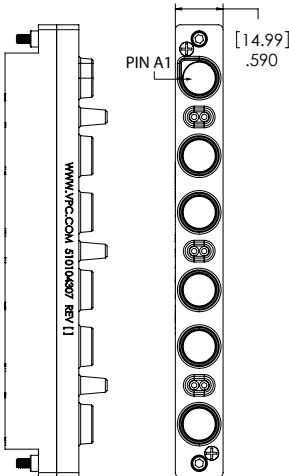
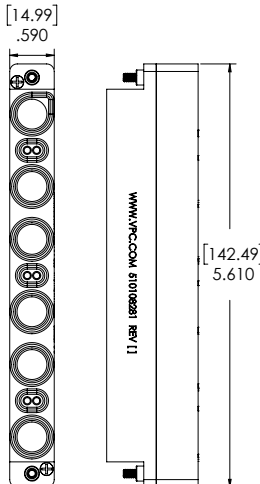


150 Amp High Power Receiver Patchcord		150 Amp High Power ITA Patchcord	
Temperature Rise Test 150 Amp High Power Contacts	 Temperature Rise (°C)		
	Part #	Description	Used in Module
	150 AMP HIGH POWER RECEIVER CONTACT 610 149 101	High Power Contact, Receiver, 150 Amps, 2 AWG, 30μ" Gold	510 104 307 510 160 124
	150 AMP HIGH POWER ITA CONTACT 610 150 101	High Power Contact, ITA, 150 Amps, 2 AWG, 30μ" Gold	510 108 281 510 161 124
	150 AMP HIGH POWER RECEIVER AND ITA PATCHCORDS 7-221 902 000-036	High Power Contact, Receiver, 150 Amps, 36", 2 AWG, Single Ended	510 104 307 510 160 307
	7-222 902 000-036	High Power Contact, ITA, 150 Amps, 36", 2 AWG, Single Ended	510 108 281 510 161 124
	CRIMP TOOLS 910 102 116	Tool, Crimp Kit (Pneumatic Crimp Tool, Locator and Die), High Power, Receiver and ITA	
	910 102 117	Tool, Crimp Kit (Locator and Die), High Power, Receiver and ITA	
	EXTRACTION TOOL 910 112 129	Tool, Extraction, High Power, Receiver and ITA	

High Power iCon Module

Module Specifications		
Receiver Material	G10 epoxy glass	
Receiver Temperature	Operating • -55° C to 125° C Non-operating • -55° C to 140° C	
ITA Material	G10 epoxy glass	
ITA Temperature	Operating • -55° C to 125° C Non-operating • -65° C to 140° C	
Dielectric Withstanding Voltage (DWV)	1500 VDC min.	
Available Contact Positions	4 signal/4 high power	
Module Positions Needed	1	
		
 		
Receiver • Part # 510 160 124		
ITA • Part # 510 161 124		
Part #	Description	Contacts Used
HIGH POWER ICON RECEIVER MODULES		
510 160 124	TriPaddle Signal/High Power Module, Receiver, iCon, 4/4 Position	610 149 101
510 109 572	Strain Relief Plate, iCon High Power, Receiver	
HIGH POWER ICON ITA MODULE		
510 161 124	TriPaddle Signal/High Power Module, ITA, iCon, 4/4 Position	610 150 101

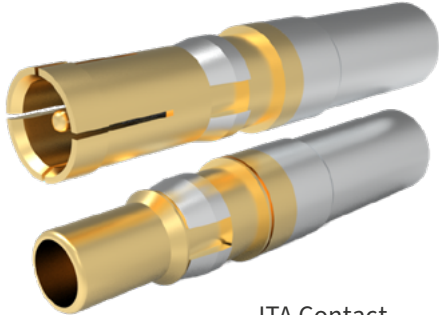
High Power Module

Module Specifications		
Receiver Material	G10 epoxy glass	
Receiver Temperature	Operating • -55° C to 125° C Non-operating • -55° C to 140° C	
ITA Material	G10 epoxy glass	
ITA Temperature	Operating • -55° C to 125° C Non-operating • -65° C to 220° C	
Dielectric Withstanding Voltage (DWV)	1500 VDC min.	
Available Contact Positions	6 signal/6 high power	
Module Positions Needed	1	
 MATING SIDE		
Receiver • Part # 510 104 307		
 MATING SIDE		
ITA • Part # 510 108 281		
Part #	Description	Contacts Used
HIGH POWER RECEIVER MODULE		
510 104 307	TriPaddle Signal/High Power Module, Receiver, 6/6 Position, Strain Relief Plate Included	610 149 101
HIGH POWER ITA MODULES		
510 108 281	TriPaddle Signal/High Power Module, ITA, 6/6 Position	610 150 101
510 109 549	Strain Relief Plate for High Power 90 Series ITA and Receiver Modules	

75 Ohm Coaxial Contacts and Patchcords

Contact Specifications	
Characteristic Impedance	75 Ω
Frequency Range	DC to 3 GHz
Insertion Loss	-1.64 dB @ 3 GHz
VSWR	< 2.95 @ 3 GHz
Operating Current	3.0 amp DC max. continuous
Contact Resistance	Center contact – 5 mΩ Outer shield – 3 mΩ
Mating Force	4.0 lbs max. [1.81 kg]
Dielectric Withstanding Voltage (DWV)	800 volts RMS
Insulation Resistance	1000 MΩ min.
Contact Body Material	Female & male shield • brass Center contact • BeCu
Contact Plating	Center conductor shield • 30μ" Au over 100μ" Ni
Cycle Life	20,000 cycles

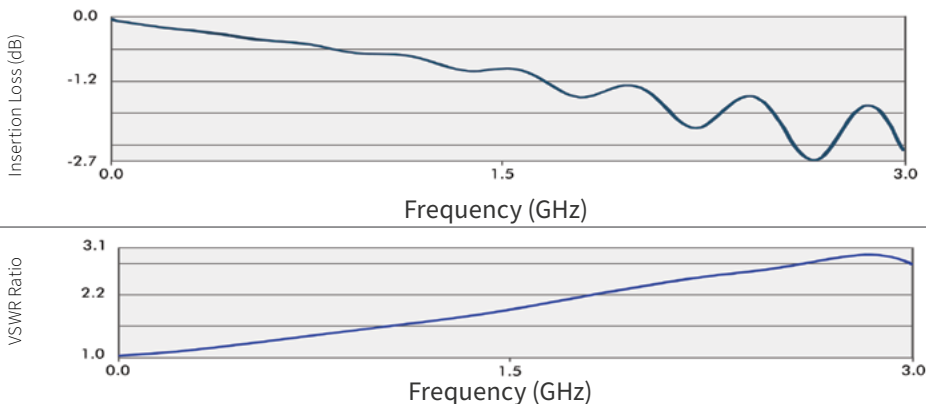
Receiver Contact
Part # 610 104 157



ITA Contact
Part # 610 103 169



75 Ohm Coaxial RF Response
75 Ohm impedance
RG179 style de-embedded
cable (contact only)

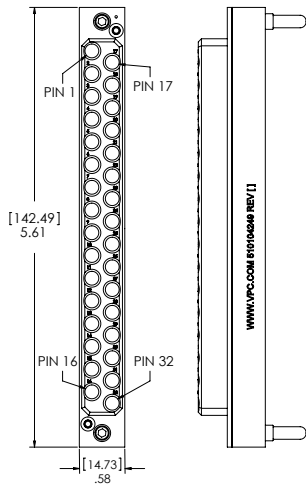


Part #	Description	Used in Module
75 OHM COAXIAL RECEIVER CONTACT		
610 104 157	Coaxial Contact, Receiver, 75 Ohm, RG179, Crimp	510 104 249
75 OHM COAXIAL ITA CONTACT		
610 103 169	Coaxial Contact, ITA, 75 Ohm, RG179, Crimp	510 108 179
75 OHM COAXIAL RECEIVER AND ITA PATCHCORDS		
7-382 179 000-036	Coaxial Patchcord, Receiver, 75 Ohm, 36", RG179, Single Ended	510 104 249
7-381 179 000-036	Coaxial Patchcord, ITA, 75 Ohm, 36", RG179, Single Ended	510 108 179
CRIMP TOOLS		
910 102 106	Tool Kit, 75 Ohm Coaxial Contacts, Receiver	
910 102 107	Tool Kit, 75 Ohm Coaxial, ITA	
910 104 139	Tool, Hex Crimp for Outer Shield, 75 Ohm Coaxial, Receiver and ITA Contacts	
EXTRACTION TOOL		
910 112 117	Tool, Extraction, for 75 Ohm and 20/26 GHz Receiver and ITA Contacts	

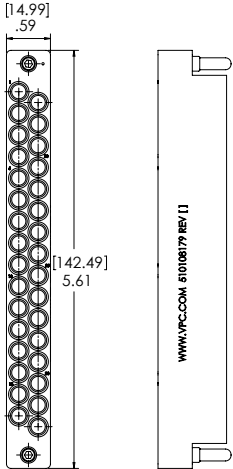
75 Ohm Coaxial Module

Module Specifications	
Receiver Material	G10 epoxy glass
Receiver Temperature	Operating • -55° C to 125° C Non-operating • -55° C to 140° C
ITA Material	Black-PPS
ITA Temperature	Operating • -55° C to 125° C Non-operating • -65° C to 220° C
Dielectric Withstanding Voltage (DWV)	1500 VDC min.
Available Contact Positions	32
Module Positions Needed	1





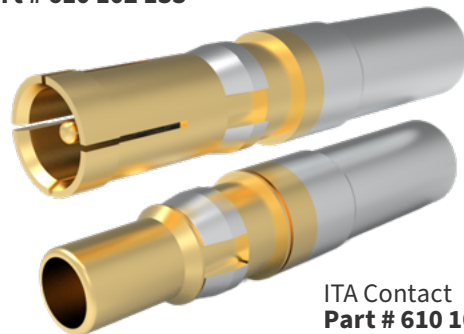
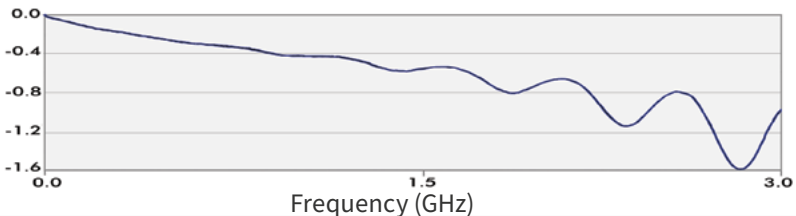
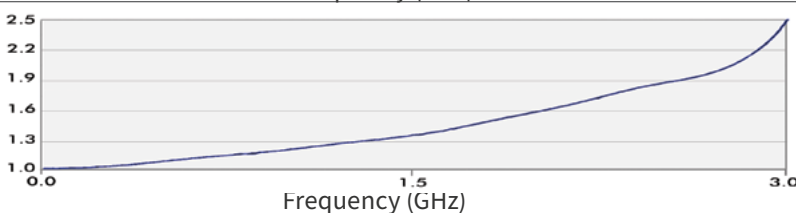
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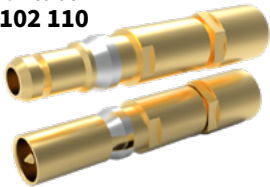
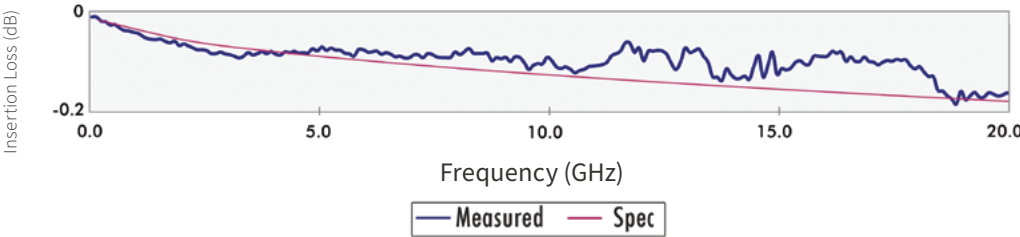
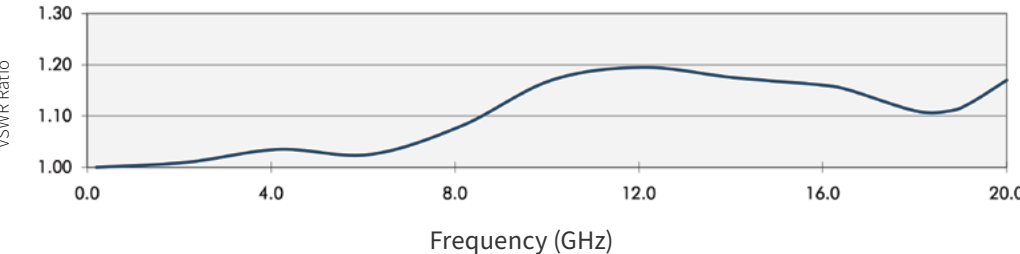
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Receiver • Part # 510 104 249		ITA • Part # 510 108 179
Part #	Description	Contacts Used
75 OHM COAXIAL RECEIVER MODULES		
510 104 249	Coaxial Module, Receiver, 75 Ohm, 32 Position	610 104 157
510 109 298	Strain Relief Plate for Receiver Modules	
20 GHZ/75 OHM COAXIAL ITA MODULES		
510 108 179	Coaxial Module, ITA, 20/26 GHz, 75 Ohm and 75 Ohm HD, 32 Position	610 103 169
510 109 296	Strain Relief Plate for ITA Modules	

75 Ohm High Definition (HD) Coaxial Patchcords and Contacts

Contact Specifications		Receiver Contact Part # 610 102 133  ITA Contact Part # 610 102 132
Characteristic Impedance	75 Ω	
Frequency Range	DC to 3 GHz	
Insertion Loss	~.86 dB @ 3 GHz	
VSWR	< 2.26 @ 3 GHz	
Operating Current	3.0 amp DC max. continuous	
Contact Resistance	Center contact – 5 mΩ Outer shield – 3 mΩ	
Mating Force		
Dielectric Withstanding Voltage (DWV)	800 VDC min.	
Insulation Resistance	1000 MΩ min.	
Contact Body Material	Female & male shield • brass Center contact • BeCu	
Contact Plating	Center conductor shield • 30μ" Au over 100μ" Ni	
Cycle Life	20,000 cycles	
 		
75 Ohm HD Coaxial Receiver Patchcord		75 Ohm HD Coaxial ITA Patchcord
75 Ohm HD Coaxial RF Response 75 Ohm impedance de-embedded cable (contact only)	Insertion Loss (dB)	
	VSWR Ratio	
Part #	Description	Used in Module
75 OHM HD COAXIAL RECEIVER CONTACT		
610 102 133	Coaxial Contact, Receiver, 75 Ohm HD, sm59/U Belden 1855A, 3 GHz, Crimp	510 104 251 510 160 114/115
75 OHM HD COAXIAL ITA CONTACT		
610 102 132	Coaxial Contact, ITA, 75 Ohm HD, sm59/U Belden 1855A, 3 GHz, Crimp	510 108 179 510 161 114/115
75 OHM HD COAXIAL RECEIVER AND ITA PATCHCORDS		
7-412 873 000-036	Coaxial Patchcord, Receiver, 75 Ohm HD, 36" sm59/U Belden 1855A, Single Ended	510 104 251 510 160 114/115
7-411 873 000-036	Coaxial Patchcord, ITA, 75 Ohm HD, 36", sm59/U Belden 1855A, Single Ended	510 108 179 510 161 114/115
CRIMP TOOL		
910 104 139	Tool, Hex Crimp for Outer Shield, 75 Ohm Coaxial, Receiver and ITA	
EXTRACTION TOOL		
910 112 117	Tool, Extraction, 75 Ohm and 20/26 GHz Coaxial, Receiver and ITA	

20/26 GHz Coaxial Contacts and Patchcords

Contact Specifications		ITA Crimp Contact Part # 610 102 110  Receiver Crimp Contact Part # 610 102 109 ITA Solder Contact Part # 610 102 118  Receiver Solder Contact Part # 610 102 119 For applications in which a more flexible cable is needed, use Flex 402 patchcords. Flex 402 cable has half the minimum bend radius as SF142. When flexibility is not as important, use VPC's crimp contact with SF142 cable.
Characteristic Impedance	50 Ω	
Frequency Range	DC to 26 GHz	
Insertion Loss	.06 x√f(GHz) dB	
VSWR	1.15 + .01 (f) GHz (w/ SF142 [20 GHz]) 1.25 for 2 – 18 GHz (w/ TF402) 1.30 for 18 – 26 GHz (w/ TF402)	
Operating Current	5 Amps DC max. continuous	
Contact Isolation	> –90 dB over frequency range	
Contact Resistance	4 mΩ max. center conductor 2 mΩ max. shield	
Mating Force	4.0 lbs max. [1.81 kg]	
Dielectric Withstanding Voltage (DWV)	800 volts RMS shield to center contact 1000 volts RMS contact to contact	
Insulation Resistance	2000 MΩ min.	
Contact Body Material	Female & male plug (RCV & ITA) Shield – brass Center conductor – BeCu	
Contact Plating	30μ" Au over 100μ" Ni	
Cycle Life	20,000 cycles	
20/26 GHz Coaxial RF Response 50 Ohm impedance SF142 style de-embedded cable (contact only)	Insertion Loss (dB)	
	VSWR Ratio	

20/26 GHz Coaxial Contacts and Patchcords



20/26 GHz Coaxial Receiver Patchcord • SF142B

20/26 GHz Coaxial ITA Patchcord • SF142B



20/26 GHz Coaxial Receiver Patchcord • Flex 402

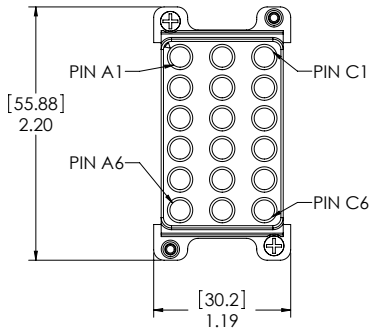
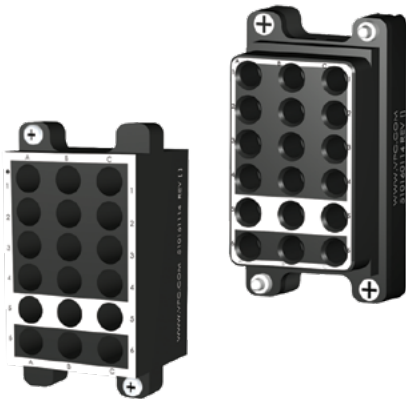
20/26 GHz Coaxial ITA Patchcord • Flex 402

Part #	Description	Used in Module
20/26 GHZ COAXIAL RECEIVER CONTACTS		
610 102 109	Coaxial Contact, Receiver, 20/26 GHz, SF142B, Crimp/Clamp	510 104 251
610 102 119	Coaxial Contact, Receiver, 20/26 GHz, Flex 402, Solder (available only in patchcords)	510 104 251/289
		510 160 114/115
20/26 GHZ COAXIAL ITA CONTACTS		
610 102 110	Coaxial Contact, ITA, 20/26 GHz, SF142B, Crimp/Clamp	510 108 179
		510 161 114/115
610 102 118	Coaxial Contact, ITA, 20/26 GHz, Flex 402, Solder (available only in patchcords)	510 108 179
		510 161 114/115
20/26 GHZ COAXIAL RECEIVER AND ITA PATCHCORDS		
7-384 143 000-036	20/26 GHz Coaxial Patchcord, Receiver, 50 Ohm, 36", SF142B, Single Ended	510 104 251
7-388 102 000-036	20/26 GHz Coaxial Patchcord, Receiver, 50 Ohm, 36", Flex 402, Single Ended	510 104 251
		510 160 114/115
7-383 143 000-036	20/26 GHz Coaxial Patchcord, ITA, 50 Ohm, 36", SF142B, Single Ended	510 108 179
7-387 102 000-036	20/26 GHz Coaxial Patchcord, ITA, 50 Ohm, 36", Flex 402, Single Ended	510 108 179
		510 161 114/115
CRIMP TOOL		
910 101 124	Tool, Crimp, 20/26 GHz Coaxial Contacts, Receiver and ITA	
EXTRACTION TOOL		
910 112 117	Tool, Extraction, 75 Ohm and 20/26 GHz Coaxial Contacts, Receiver and ITA	

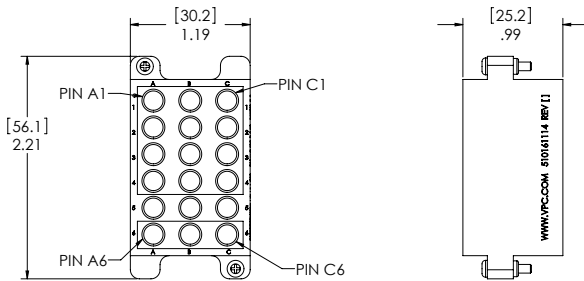
20/26 GHz and 75 Ohm HD Coaxial Module

Module Specifications

Material	G10 epoxy glass
Temperature	Operating • -55°C to 125°C Non-operating • -55°C to 140°C
Dielectric Withstanding Voltage (DWV)	1500 VDC min.
Available Contact Positions	18
Module Positions Needed	1



MATING SIDE



WIRING SIDE

Receiver • Part # 510 160 114

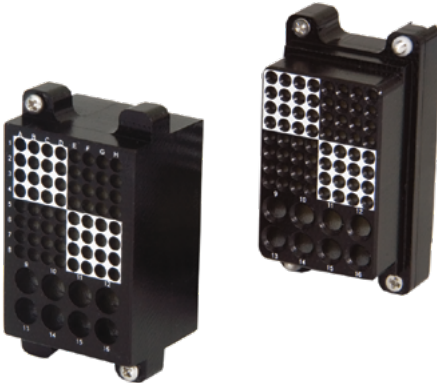
ITA • Part # 510 161 114

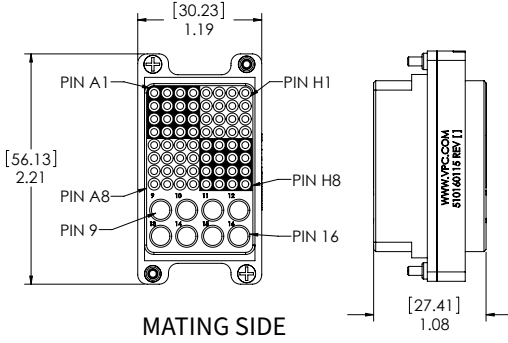
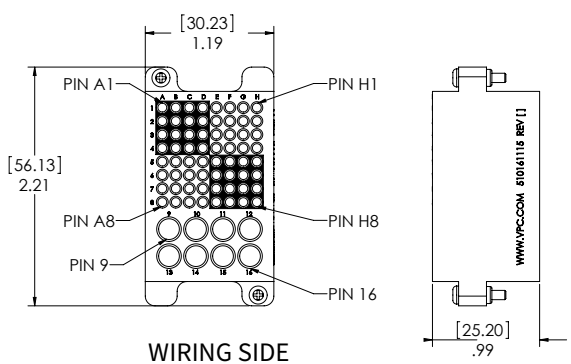
Part #	Description	Contacts Used	
		20/26 GHz	75 OHM HD
ICON RECEIVER 20/26 GHZ AND 75 OHM HD COAXIAL MODULE			
510 160 114	Coaxial Module, Receiver, iCon, 20/26 GHz/75 Ohm HD, 18 Position	610 102 119 (patchcord only)	610 102 133
ICON ITA 20/26 GHZ AND 75 OHM HD COAXIAL MODULE			
510 161 114	Coaxial Module, ITA, iCon, 20/26 GHz/75 Ohm HD, 18 Position	610 102 118 (patchcord only)	610 102 132

NOTE: Refer to User's Manual for power applications with this module.

TriPaddle / 20/26 GHz & 75 Ohm HD Coaxial Module

Module Specifications	
Material	G10 epoxy glass
Temperature	Operating • -55°C to 125°C Non-operating • -55°C to 140°C
Dielectric Withstanding Voltage (DWV)	1500 VDC min.
Available Contact Positions	64/8
Module Positions Needed	1



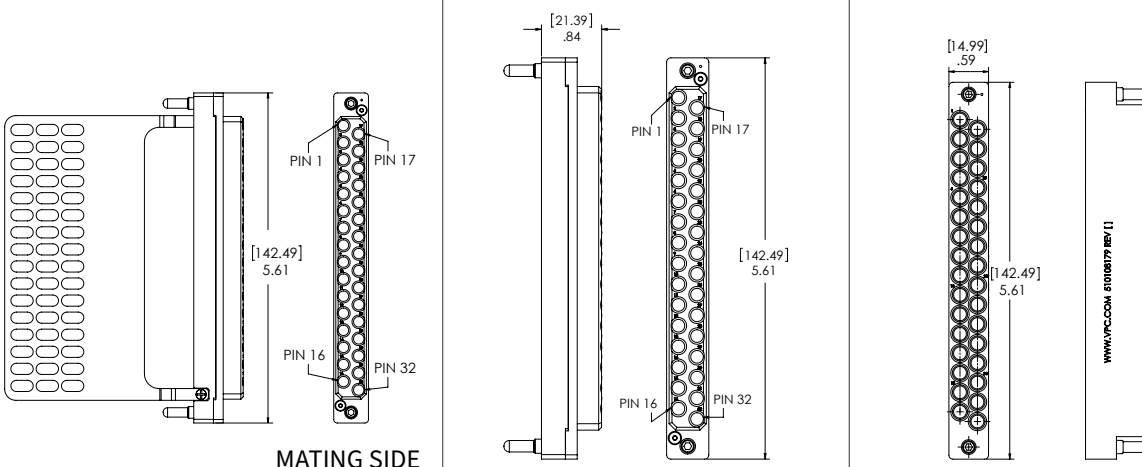
 MATING SIDE	 WIRING SIDE
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Receiver • Part # 510 160 115		ITA • Part # 510 161 115		
Part #	Description	Contacts Used		
510 160 115	ICON RECEIVER TRIPADDLE SIGNAL / 20/26 GHZ & 75 OHM HD COAXIAL MODULE TriPaddle Signal / 20/26 GHz & 75 Ohm HD Coaxial Module, Receiver, iCon, 64/8 Position	TRIPADDLE	20/26 GHz	75 OHM HD
		610 110 101	610 102 119	610 102 133
		610 110 128	(patchcord only)	
		610 110 167		
		610 110 177		
		610 110 179		
510 161 115	ICON ITA TRIPADDLE SIGNAL / 20/26 GHZ COAXIAL MODULE TriPaddle Signal / 20/26 GHz & 75 Ohm HD Coaxial Module, ITA, iCon, 64/8 Position	610 110 108	610 102 118	610 102 132
		610 110 113	(patchcord only)	
		610 110 129		
		610 110 169		

20/26 GHz or 75 Ohm High Definition (HD) Coaxial Module

Module Specifications	
Material	Black PPS
Temperature	Operating • -55° C to 125° C Non-operating • -65° C to 220° C
Module with Strain Relief Material	Black PPS
Module with Strain Relief Temperature	Operating • -55° C to 125° C Non-operating • -65° C to 220° C
Strain Relief Material	Aluminum
Strain Relief Finish	Powder coat
Dielectric Withstanding Voltage (DWV)	1500 VDC min.
Available Contact Positions	32
Module Positions Needed	1



 MATING SIDE MATING SIDE WIRING SIDE	Receiver • Part # 510 104 289	Receiver • Part # 510 104 251	ITA • Part # 510 108 179
Part #	Description	Contacts Used	
20/26 GHZ OR 75 OHM HD COAXIAL RECEIVER MODULES			
510 104 251	Coaxial Module, Receiver, 20/26 GHz and 75 Ohm HD, 32 Position	610 102 109/119/133	
510 104 289	Coaxial Module, Receiver, 20/26 GHz and 75 Ohm HD, 32 Position, Includes Strain Relief Plate	610 102 109/119	
510 109 298	Strain Relief Plate for Receiver Modules		
20/26 GHZ OR 75 OHM HD COAXIAL ITA MODULES			
510 108 179	Coaxial Module, ITA, 20/26 GHz, 75 Ohm and 75 Ohm HD, 32 Position	610 102 110/117/118/132	
510 109 296	Strain Relief Plate for ITA Modules	610 103 169	

20/26 GHz Coaxial SMA Contacts

Contact Specifications	
Characteristic Impedance	50 Ω
Frequency Range	DC to 26 GHz
Insertion Loss	.06 x√f(GHz) dB
VSWR	1.15 + .01 (f) GHz
Operating Current	5 Amp DC max. continuous
Contact Isolation	> -90 dB over frequency range
Mating Force	4.0 lbs max. [1.81 kg]
Contact Resistance	5 mΩ max. center conductor 3 mΩ max. shield
Dielectric Withstanding Voltage (DWV)	800 volts RMS shield to center contact 1000 volts RMS contact to contact
Insulation Resistance	2000 MΩ min.
Contact Body Material	Shield – brass Center conductor – BeCu
Contact Plating	30μ" Au over 100μ" Ni
Cycle Life	20,000 cycles

ITA Contact
Part # 610 102 134

Receiver Contact
Part # 610 102 135



20/26 GHz Coaxial SMA Receiver Patchcord		20/26 GHz Coaxial SMA ITA Patchcord
Part #	Description	Used in Module
20/26 GHZ COAXIAL RECEIVER CONTACT 610 102 135	Coaxial Contact, Receiver, 20/26 GHz with SMA Adapter	510 104 287
20/26 GHZ COAXIAL ITA CONTACT 610 102 134	Coaxial Contact, ITA, 20/26 GHz with SMA Adapter	510 108 240
20/26 GHZ COAXIAL SMA PATCHCORDS		
7-528 143 000-036	Coaxial Patchcord, SMA Plug, 36", SF142B Tan, Single Ended	
7-531 102 000-036	Coaxial Patchcord, SMA Plug, 36", Flex 402 Blue, Single Ended	

20/26 GHz SMA Coaxial Module

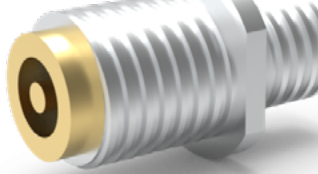
Module Specifications	
Module Material	G10 epoxy glass
Module Temperature	Operating • -55° C to 125° C Non-operating • -55° C to 140° C
Dielectric Withstanding Volt- age (DWV)	1500 VDC min.
Receiver Strain Relief Material	Aluminum
Receiver Strain Relief Finish	Clear anodize
Available Contact Positions	17
Module Positions Needed	1

MATING SIDE

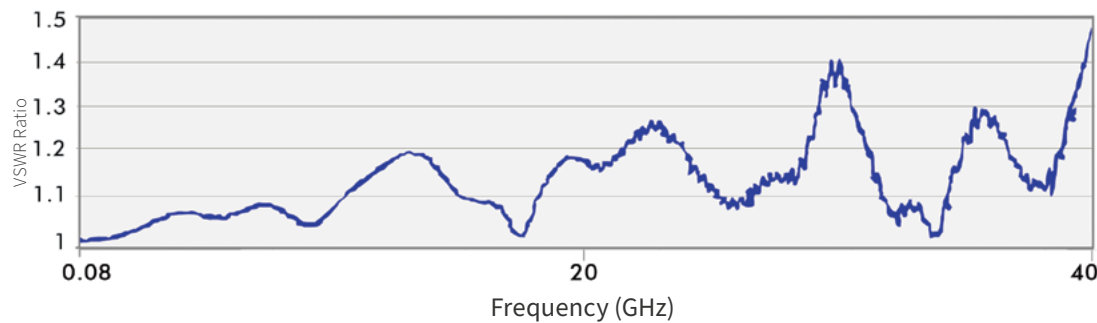
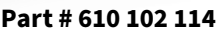
WIRING SIDE

Receiver • Part # 510 104 287		ITA • Part # 510 108 240
Part #	Description	Contacts Used
18 GHZ COAXIAL RECEIVER MODULE AND STRAIN RELIEF 510 104 287	Coaxial Module, Receiver, 20/26 GHz, 17 Position	610 102 135
18 GHZ COAXIAL ITA MODULE 510 108 240	Coaxial Module, ITA, 20/26 GHz, 17 Position	610 102 134

40 GHz Coaxial Contact



Part # 610 102 114



40 GHz Coaxial Module



Receiver • Part # 510 104 224



ITA • Part # 510 108 169

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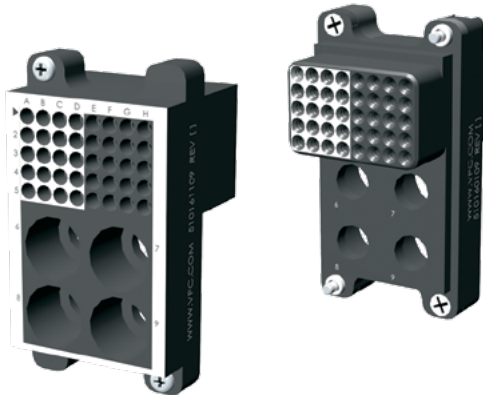
Twinaxial Contacts and Patchcords

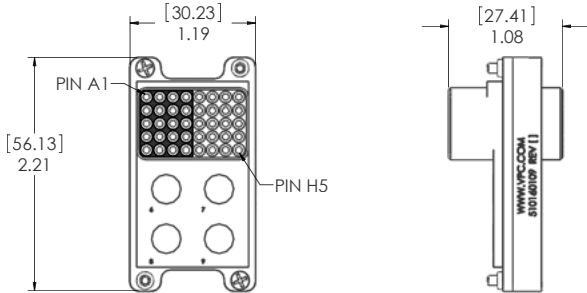
Contact Specifications		ITA Contact Part # 610 113 145  Receiver Contact Part # 610 113 144
Operating Current and Voltage	3 amp max. continuous 480 RMS	
Contact Resistance	Center contact is < 6.5 mΩ; Intermediate contact is < 3 mΩ; Outer contact is < 3.5 mΩ	
Insertion Loss	-0.044 dB @ 0.2 GHz	
VSWR	Approximately 1.1:1 @ 100 MHz	
Insulation Resistance	106 MΩ min.	
Mating Force	3.5 lbs max. [1.59 kg]	
Contact Body Material	Outer shell • brass Inner shield • bronze Male contact • brass	
Contact Plating	40μ" Au over 130μ" Ni	
Cycle Life	20,000 cycles	

Twinaxial Receiver Patchcord		Twinaxial ITA Patchcord	
Part #	Description	Used in Module	
TWINAXIAL RECEIVER CONTACT			
610 113 144	Twinaxial Contact, Receiver	510 104 155	510 160 109
TWINAXIAL ITA CONTACT			
610 113 145	Twinaxial Contact, ITA	510 108 138	510 161 109
TWINAXIAL RECEIVER AND ITA PATCHCORDS			
7-402 423 000-036	Twinaxial Patchcord, Receiver, 3 Amp, 36", 22 AWG Shielded Twisted Pair, Single Ended	510 104 155	510 160 109
7-401 423 000-036	Twinaxial Patchcord, ITA, 3 Amp, 36", 22 AWG Shielded Twisted Pair, Single Ended	510 108 138	510 161 109

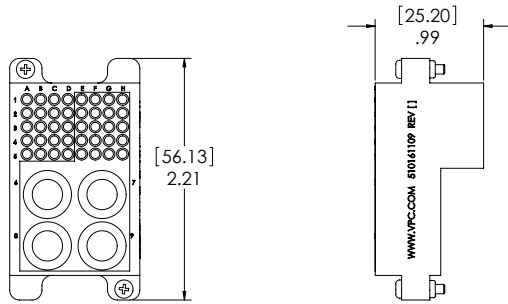
Position TriPaddle/Twinaxial Module

Module Specifications	
Material	G10 epoxy glass
Temperature	Operating • -55° C to 125° C Non-operating • -55° C to 140° C
Dielectric Withstanding Volt- age (DWV)	1500 VDC min.
Available Contact Positions	40/4
Module Positions Needed	1





MATING SIDE



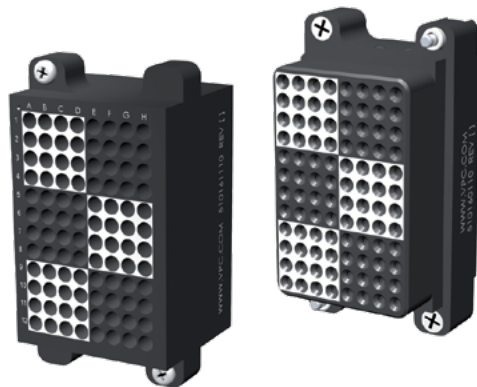
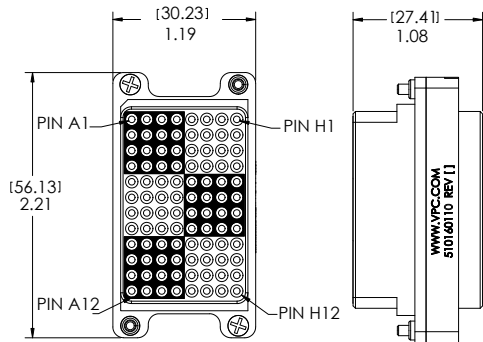
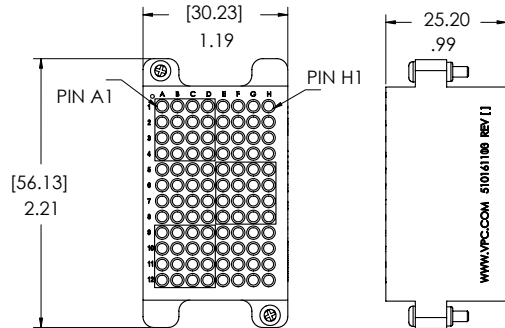
WIRING SIDE

Receiver • **Part # 510 160 109**

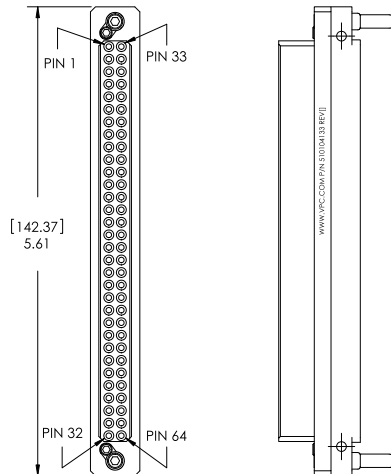
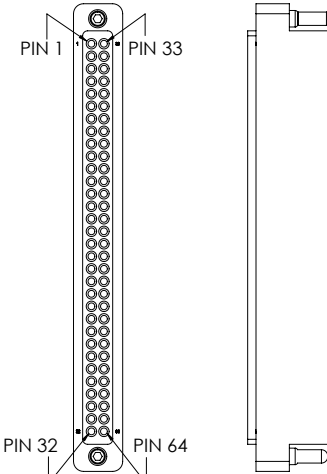
ITA • **Part # 510 161 109**

Part #	Description	Contacts Used	
		TRIPADDLE	TWINAXIAL
ICON RECEIVER TRIPADDLE/TWINAXIAL MODULE			
510 160 109	TriPaddle Signal/Twinaxial Module, Receiver, iCon, 40/4 Position		
		610 110 101	610 113 144
		610 110 104	
		610 110 128	
		610 110 167	
ICON ITA TRIPADDLE/TWINAXIAL MODULE			
510 161 109	TriPaddle Signal/Twinaxial Module, ITA, iCon, 40/4 Position		
		610 110 108	610 113 145
		610 110 113	
		610 110 129	
		610 110 169	

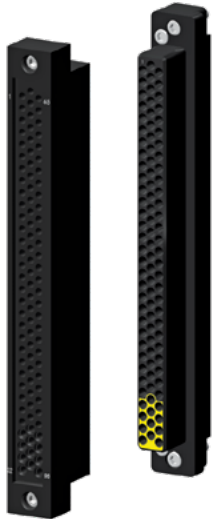
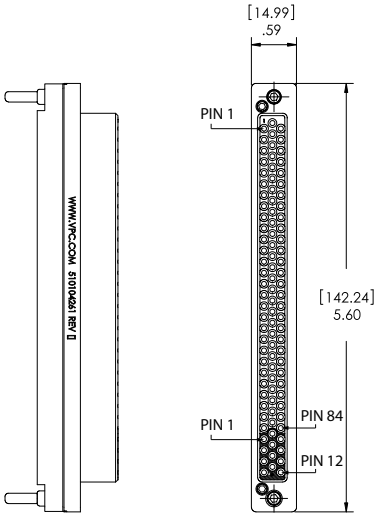
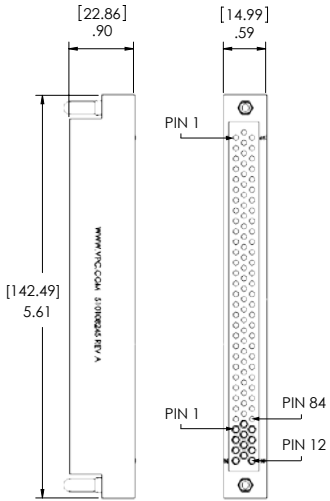
Thermocouple Module

Module Specifications			
Material	G10 epoxy glass		
Temperature	Operating • -55° C to 125° C Non-operating • -55° C to 140° C		
Available Contact Positions	96		
Module Positions Needed	1		
			
 MATING SIDE  WIRING SIDE			
Receiver • Part # 510 160 110			
ITA • Part # 510 161 110			
Part #	Description	Contacts Used	
		CHROMEL	ALUMEL
ICON RECEIVER THERMOCOUPLE MODULE			
510 160 110	THERMOCOUPLE MODULE, RECEIVER, ICON, 96 POSITION	610 113 131	610 113 132
ICON ITA THERMOCOUPLE MODULE			
510 161 110	THERMOCOUPLE MODULE, ITA, ICON, 96 POSITION	610 113 133	610 113 134

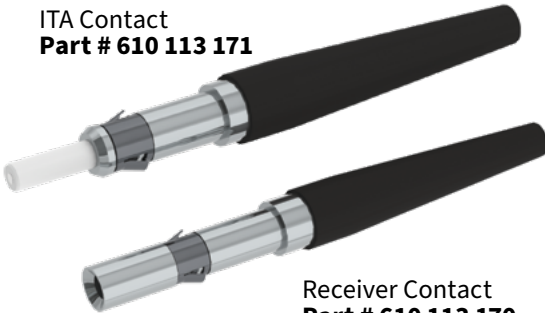
Thermocouple Module

Module Specifications					
Material	Black PPS				
Temperature	Operating • -55° C to 125° C Non-operating • -65° C to 220° C				
Available Contact Positions	64				
Module Positions Needed	1				
 MATING SIDE			 WIRING SIDE		
Receiver • Part # 510 104 133			ITA • Part # 510 108 124		
Part #	Description	Contacts Used			
THERMOCOUPLE RECEIVER MODULES AND STRAIN RELIEFS					
510 104 133	Thermocouple Module, Receiver, 64 Position	610 113 131/132			
510 109 116	Strain Relief Plate for Select Receiver Modules				
THERMOCOUPLE ITA MODULES AND STRAIN RELIEFS					
510 108 124	Thermocouple Module, ITA, 64 Position	610 113 133/134			
510 109 296	Strain Relief Plate for ITA Modules				

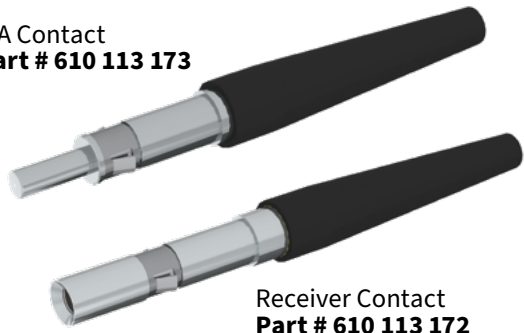
TriPaddle Thermocouple Module

Module Specifications			
Receiver Material	G10 epoxy		
Receiver Temperature	Operating • -55° C to 125° C Non-operating • -65° C to 140° C		
ITA Material	Black PPS		
ITA Temperature	Operating • -55° C to 125° C Non-operating • -65° C to 225° C		
Dielectric Withstanding Volt- age (DWV)	1500 VDC min.		
Available Contact Positions	84 signal, 12 thermocouple		
Module Positions Needed	1		
		Thermocouple Contacts occupy the bottom 12 positions.	
			
MATING SIDE		WIRING SIDE	
Receiver • Part # 510 104 261		ITA • Part # 510 108 245	
Part #	Description	Contacts Used	
TRIPADDLE/THERMOCOUPLE RECEIVER MODULES		TRIPADDLE	THERMOCOUPLE
510 104 261	TriPaddle Signal/Thermocouple Module, Receiver, 84/12 Position	610 110 101/ 128/167/177/ 179	610 113 131/132
510 109 116	Strain Relief Plate for Select Receiver Modules		
TRIPADDLE/THERMOCOUPLE ITA MODULES			
510 108 245	TriPaddle Signal/Thermocouple Module, ITA, 84/12 Position	610 110 108/ 113/129/169	610 113 133/134
510 109 296	Strain Relief Plate for ITA Modules		

Mini Fiber Optic Patchcords - POF

Contact Specifications		ITA Contact Part # 610 113 171  Receiver Contact Part # 610 113 170
Insertion Loss	-4.0 dB max. / mated pair	
Mating Force	1.5 lbs [.68 kg]	
Polymer Optical Fiber (POF)	980/1000 μ"	
Contact Body Material	Nickel silver	
Cycle Life	5,000 cycles	
		
Fiber POF Receiver Patchcord		Fiber POF ITA Patchcord
Part #	Description	Used in Module
POLYMER OPTICAL FIBER RECEIVER PATCHCORDS		
7-414 845 000-036	Fiber Optic Patchcord, Receiver, Mini Fiber Optic, 36", Polymer Optic Fiber, Single Ended	510 104 120/150/243/301 510 160 102/103/104
7-414 845 504-036	Fiber Optic Patchcord, Receiver, Mini Fiber Optic, 36", Polymer Optic Fiber, to FC with PC Polish	510 104 120/150/243/301 510 160 102/103/104
7-414 845 510-036	Fiber Optic Patchcord, Receiver, Mini Fiber Optic, 36", Polymer Optic Fiber, to SC with PC Polish	510 104 120/150/243/301 510 160 102/103/104
POLYMER OPTICAL FIBER ITA PATCHCORDS		
7-413 845 000-036	Fiber Optic Patchcord, ITA, Mini Fiber Optic, 36", Polymer Optic Fiber, Single Ended	510 108 111/132/210/276 510 161 102/103/104
7-413 845 504-036	Fiber Optic Patchcord, ITA, Mini Fiber Optic, 36", Polymer Optic Fiber, to FC with PC Polish	510 108 111/132/210/276 510 161 102/103/104
7-413 845 510-036	Fiber Optic Patchcord, ITA, Mini Fiber Optic, 36", Polymer Optic Fiber, to SC with PC Finish	510 108 111/132/210/276 510 161 102/103/104
FIBER OPTIC ACCESSORIES		
910 112 125	Tool, Extraction, Mini Fiber Optic, Receiver and ITA	

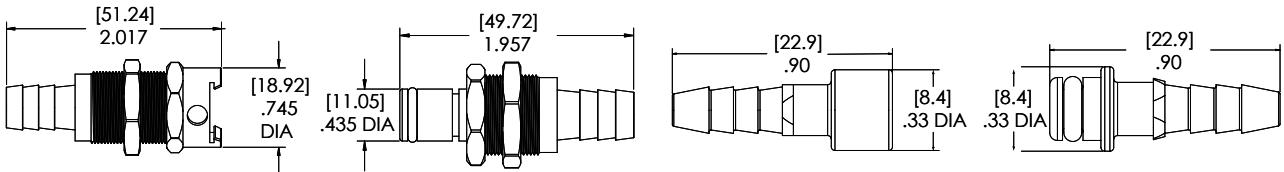
Mini Fiber Optic Patchcords - Multimode

Contact Specifications		ITA Contact Part # 610 113 173  Receiver Contact Part # 610 113 172
Insertion Loss	-1.5 dB max / mated pair	
Mating Force	2.8 lbs [1.3 kg]	
Glass Fiber	Multimode 62.5/125	
Contact Body Material	Ceramic and nickel silver	
Cycle Life	5,000 cycles	
		
Fiber Mini Multimode Receiver Patchcord		Fiber Mini Multimode ITA Patchcord
Part #	Description	Used in Module
MINI MULTIMODE FIBER RECEIVER PATCHCORDS		
7-416 804 000-036	Fiber Optic Patchcord, Receiver, Mini Fiber Optic, 36", Multimode Glass Fiber, Single Ended	510 104 120/150/243/301 510 160 102/103/104
7-416 804 503-036	Fiber Optic Patchcord, Receiver, Mini Fiber Optic, 36", Multimode Glass Fiber, to FC with SPC Polish	510 104 120/150/243/301 510 160 102/103/104
7-416 804 506-036	Fiber Optic Patchcord, Receiver, Mini Fiber Optic, 36", Multimode Glass Fiber, to ST with SPC Polish	510 104 120/150/243/301 510 160 102/103/104
7-416 804 509-036	Fiber Optic Patchcord, Receiver, Mini Fiber Optic, 36", Multimode Glass Fiber, to SC with SPC Polish	510 104 120/150/243/301 510 160 102/103/104
7-416 804 512-036	Fiber Optic Patchcord, Receiver, Mini Fiber Optic, 36", Multimode Glass Fiber, to LC with SPC Polish	510 104 120/150/243/301 510 160 102/103/104
7-416 804 663-036	Fiber Optic Patchcord, Receiver, Mini Fiber Optic, 36", Multimode Glass Fiber, to SMA-F with SPC Polish	510 104 120/150/243/301 510 160 102/103/104
MINI MULTIMODE FIBER ITA PATCHCORDS		
7-415 804 000-036	Fiber Optic Patchcord, ITA, Mini Fiber Optic, 36", Multimode Glass Fiber, Single Ended	510 108 111/132/210/276 510 161 102/103/104
7-415 804 503-036	Fiber Optic Patchcord, ITA, Mini Fiber Optic, 36", Multimode Glass Fiber, to FC with SPC Polish	510 108 111/132/210/276 510 161 102/103/104
7-415 804 506-036	Fiber Optic Patchcord, ITA, Mini Fiber Optic, 36", Multimode Glass Fiber, to ST with SPC Polish	510 108 111/132/210/276 510 161 102/103/104
7-415 804 509-036	Fiber Optic Patchcord, ITA, Mini Fiber Optic, 36", Multimode Glass Fiber, to SC with SPC Polish	510 108 111/132/210/276 510 161 102/103/104
7-415 804 512-036	Fiber Optic Patchcord, ITA, Mini Fiber Optic, 36", Multimode Glass Fiber, to LC with SPC Polish	510 108 111/132/210/276 510 161 102/103/104
7-415 804 663-036	Fiber Optic Patchcord, ITA, Mini Fiber Optic, 36", Multimode Glass Fiber, to SMA-F with SPC Polish	510 108 111/132/210/276 510 161 102/103/104
FIBER OPTIC ACCESSORIES		
910 112 125	Tool, Extraction, Mini Fiber Optic, Receiver and ITA	
910 121 192	Tool, Fiber Optic Cleaning Pen, Multimode Glass Fiber, Receiver/ITA	

Pneumatic Contacts

Contact Specifications • 1/4" Flow [6.4 mm]	
Pressure/Vacuum Rated	250 psi (17.3 Bar)
Temperature	-40°F to 180°F (-40°C to 82°C)
Contact Body Material	Chrome-plated brass
Mating Force	9.4 lbs typical [4.26 kg]
Cycle Life	20,000 cycles
Contact Specifications • 1/8" Flow [3.2 mm]	
Pressure/Vacuum Rated	100 psi (6.9 Bar)
Temperature	-40°F to 180°F (-40°C to 82°C)
Contact Body Material	Delrin®
Mating Force	1.5 lbs typical [.68 kg]
Cycle Life	20,000 cycles





Part # 610 131 104		Part # 610 132 104		Part # 610 132 105 Part # 610 131 107		Part # 610 131 106	
Part #		Description				Used in Module	
PNEUMATIC RECEIVER CONTACTS							
610 131 101		Pneumatic Contact, Receiver, Ferruleless Fitting, for 3/8" OD, .250" ID [9.5 x 6 mm] Tubing				510 104 160/276	
610 131 104		Pneumatic Contact, Receiver, Hose Barb, for 3/8" ID [9.5 mm] Tubing				510 104 160/276	
610 131 106		Pneumatic Contact, Receiver, Hose Barb, for 1/8" ID [3.2 mm] Tubing				510 104 185	
PNEUMATIC ITA CONTACTS							
610 132 101		Pneumatic Contact, ITA, Ferruleless Fitting, for 3/8" OD, .250" ID [9.5 x 6 mm] Tubing				510 108 144/264	
610 132 104		Pneumatic Contact, ITA, Hose Barb, for 3/8" ID [9.5 mm] Tubing				510 108 144/264	
610 132 105		Pneumatic Contact, ITA, Hose Barb, for 1/8" ID [3.2 mm] Tubing				510 108 160	
PNEUMATIC CONTACT WITH VALVE							
610 131 107*		Pneumatic Contact (with valve), Hose Barb, for 1/8" ID [4 mm] Tubing				510 104 185 510 108 160	

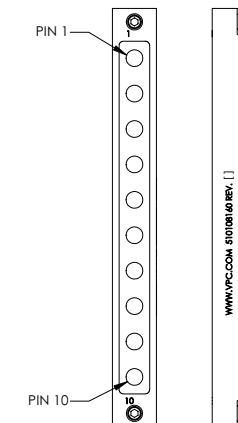
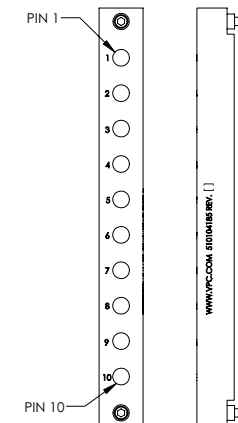
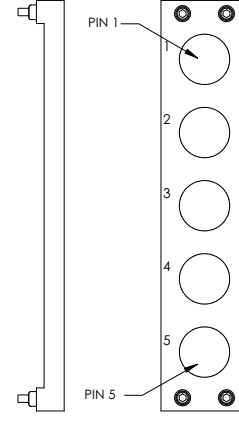
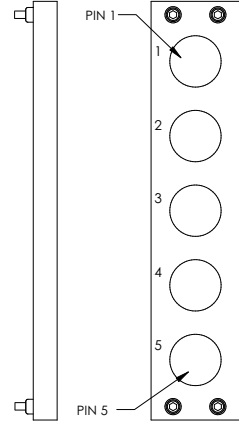
* This contact mates with contact Part # 610 131 106. It can be used in either the ITA or receiver module, however the mating module must be the opposite.

Pneumatic Modules

Module Specifications

Material	G10 epoxy glass
Temperature	Operating • -55° C to 125° C Non-operating • -65° C to 140° C
Available Contact Positions	5 (3/8" ID) 10 (1/8" ID)
Module Positions Needed	2 (3/8" ID), 1 (1/8" ID)



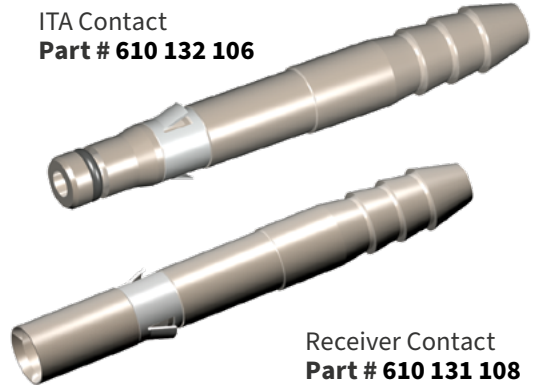


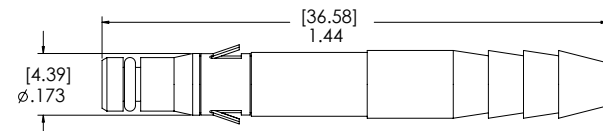
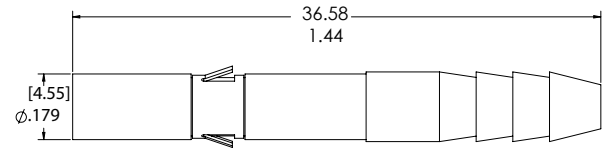
Receiver Part # 510 104 160	ITA Part # 510 108 144	Receiver Part # 510 104 185	ITA Part # 510 108 160
Part #	Description	Contacts Used	
PNEUMATIC RECEIVER MODULES			
510 104 160	Pneumatic Module, Receiver, 5 Position (3/8" Flow)	610 131 101/104	
510 104 185	Pneumatic Module, Receiver, 10 Position (1/8" Flow)	610 131 106/107	
PNEUMATIC ITA MODULES			
510 108 144	Pneumatic Module, ITA, 5 Position (3/8" Flow)	610 132 101/104	
510 108 160	Pneumatic Module, ITA, 10 Position (1/8" Flow)	610 132 105 610 131 106 610 131 107	

Mini Pneumatic Contacts

Contact Specifications • .075" Flow [1.9 mm]

Pressure/Vacuum Rated	100 psi (6.9 bar)
Contact Body Material	Nickel plated brass
Cycle Life	20,000 cycles





Receiver • Part # 610 131 108		ITA • Part # 610 132 106
Part #	Description	Used in Module
MINI PNEUMATIC RECEIVER CONTACT		
610 131 108	Mini Pneumatic Contact, Receiver, Hose Barb for 0.125" [3.2mm] ID Tubing, Fits Mini Coaxial or Mini Power Modules	510 104 123 510 104 206 510 104 120 510 104 150 510 104 243 510 160 102/103/104
MINI PNEUMATIC ITA CONTACT		
610 132 106	Mini Pneumatic Contact, ITA, Hose Barb for 0.125" [3.2mm] ID Tubing, Fits Mini Coaxial or Mini Power Modules	510 108 115 510 108 178 510 108 111 510 108 132 510 108 210 510 161 102/103/104
EXTRACTION TOOL		
910 112 104	Tool, Extraction, Mini Power/Mini Coaxial Contacts, Receiver and ITA	

Vacuum Module

Module Specifications	
Material	Black anodized aluminum
Temperature	-65° C to 200° C
Available Vacuum Positions	2
Module Positions Needed	2

Receiver Part # 510 104 260	ITA Part # 510 108 242

Receiver Part # 510 104 266	ITA Part # 510 108 251

Part #	Description
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VACUUM RECEIVER MODULES

510 104 260 Vacuum Module, Receiver, 2 Port Positions

510 104 266 Vacuum Module, Receiver, 2 Port Positions with Filter

VACUUM ITA MODULES

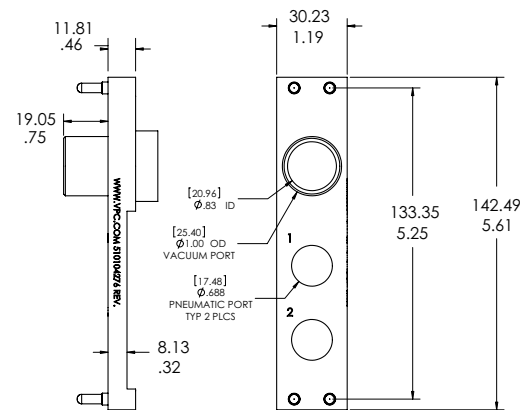
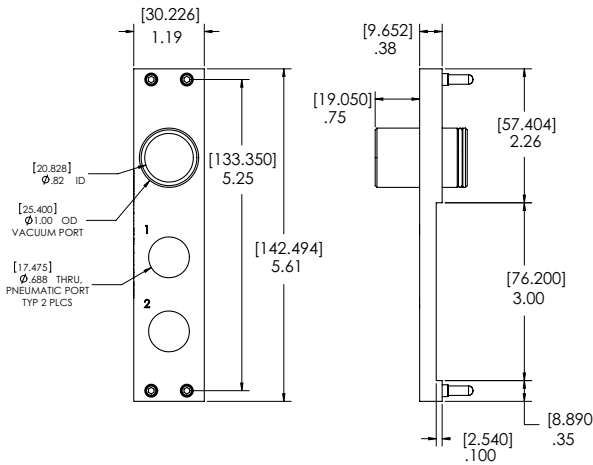
510 108 242 Vacuum Module, ITA, 2 Port Positions

510 108 251 Vacuum Module, ITA, 2 Port Positions with M22.5 x 1.5 Tap

Vacuum-Pneumatic Module

Module Specifications	
Material	Black anodized aluminum
Temperature	-65° C to 200° C
Available Vacuum Positions	1
Available Pneumatic Positions	2
Module Positions Needed	2



	
Receiver • Part # 510 104 276	ITA • Part # 510 108 264

Part #	Description	Contacts Used
VACUUM-PNEUMATIC RECEIVER MODULE		
510 104 276	Vacuum-Pneumatic Module, Receiver, 1-2 Position	610 131 101/104
VACUUM-PNEUMATIC ITA MODULE		
510 108 264	Vacuum-Pneumatic Module, ITA, 1-2 Position	610 132 101/104

Blank Modules

Module Specifications

Material	Black-PEI (Part # 510 104 118) Black anodized aluminum
Temperature	Black-PEI: operating • -65° C to 125° C Black anodized aluminum: operating • -55° C to 125° C

Part # 510 104 118	Part # 510 104 129	Part # 510 104 144	Part # 510 104 178
Part #	Description		
BLANK RECEIVER/ITA MODULES			
510 104 118	Blank Module, Receiver/ITA, 1 Module Position		
510 104 129	Blank Shielding Module, Receiver/ITA, 1 Module Position		
510 104 144	Blank Module, Receiver/ITA, 5 Module Positions		
510 104 178	Blank Module, VXI Receiver, 2 Module Positions*		

* Part # 510 104 178 does not require VXI module retainer blocks to mount to the inner frame of the VXI receiver.

Cable Management

VPC solutions are designed to accommodate an array of ATE chassis sizes/configurations, including PXI, SCXI, GPIB, LXI, PCI, VXI and AXIe applications. These solutions are available in various wired configurations, including direct panel mount, slide mount, and Vertical Hinged Mounting Frame. Regardless of the type of configuration you choose, cable routing and strain relief are important considerations to make in managing your cabling.



Strain Relief

With any configuration type, strain relief is critical in developing a reliable and consistent tester. VPC offers several strain relief options.

Module Strain Relief: The most common method is to attach strain relief plates directly to the modules (Figure 1). Wire or cable bundles are secured to the plate with wire ties, preventing forces exerted on the cables from transferring directly to the contact termination which can cause damage and loss of signal integrity.



Figure 1 Module Strain Relief



Figure 2 Cable Tie Down Bar on Instrument Bracket

Cable Tie Down Bar: A second method is to use cable tie-down bars on the receiver side. These bars are included with the Vertical Hinged Mounting Frames and are designed into the instrument bracket or cable tray kits used with slide mount receivers (Figure 2).

When slide mounting your receiver, cables connecting to the receiver should be secured to the strain relief on the instrument bracket. This prevents the cables from being damaged when the slides are extended. Cables routed to instrumentation not placed on the instrument bracket should be secured to the strain relief on the instrument bracket.

Cable Management

Measuring and Routing Cable

Direct Panel Mount

Direct panel mount systems enable the instrument chassis to be placed directly behind the VPC receiver. When using the direct panel mount method, keep a space of 8-10" from the front of the chassis to prevent tight bends in the cable. To determine the proper cable length required, measure the distance from the front face of the instrument to the module location in the receiver, allowing for bends in the cable for proper cable routing.

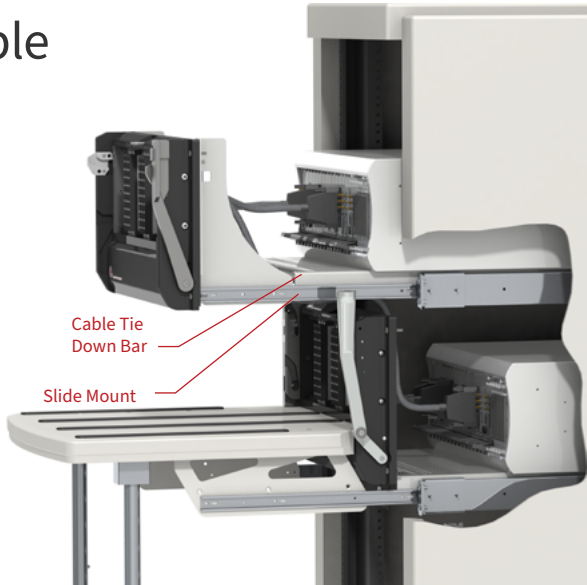


Figure 3 Slide Mount Configuration Routing.

Slide Mount

Slide mount configurations, popular for use with PXI-based testers, offer short cable lengths, easy access to instrumentation, and the ability to connect to secondary instrumentation. In addition, the cabling remains static and electrically consistent when accessing instrumentation.

When slide mounting your receiver, consider whether or not the instrument chassis will be placed on an instrument bracket. The recommended cable length is 20" when the instrument bracket is used with a slide mounted receiver. This length can change if the instrument is being wired to a receiver module on the opposite side of the tester (Figure 3).

The cables used to connect the instrumentation located somewhere other than the instrument bracket to the receiver must be long enough to allow the slides to extend fully without putting

tension on the cables (Figure 3). To determine the appropriate cable length, measure the vertical distance from the receiver to the instrument, then measure the distance from the front of the rack to the receiver with the slides fully extended, taking any bends and special routing into consideration.

Vertical Hinged Mounting Frame

Vertical Hinged Mounting Frames (VHMF) enable the instrument chassis to be placed directly behind the VHMF. When using a VHMF, keep a space of 8-10" from the front of the chassis to prevent tight bends in the cables when the VHMF is closed. To determine the proper cable length required, measure the distance from the front face of the instrument to the module location in the receiver with the VHMF in the "open" position (Figure 4), allowing for bends in the cable for proper cable routing and allowing extra length in the cable to prevent tight bends when the VHMF is closed.

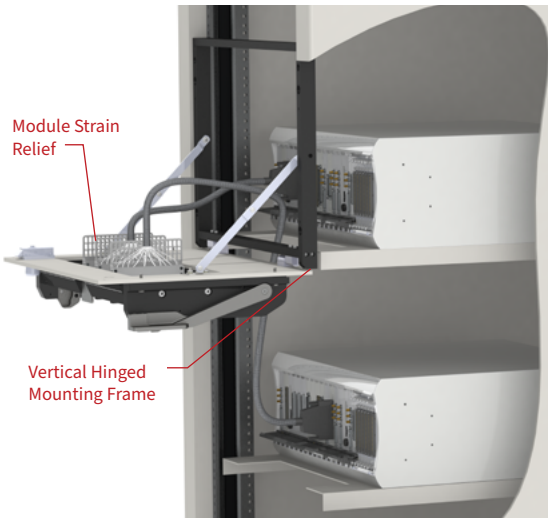
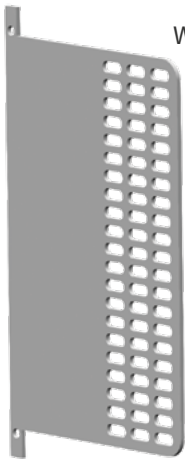
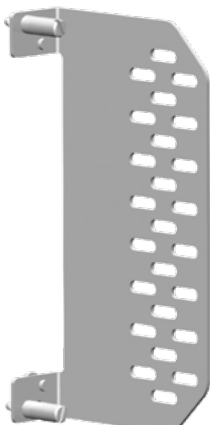
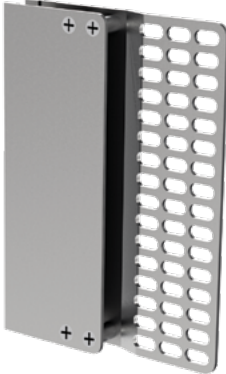
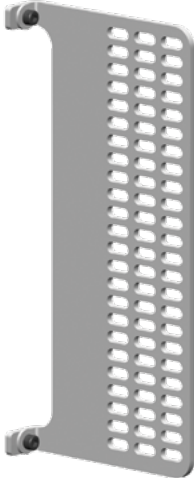
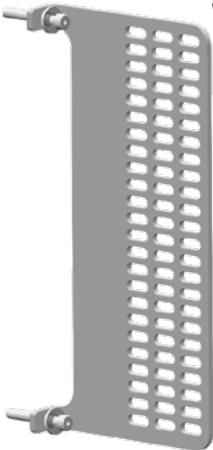


Figure 4 Vertical Hinged Mounting Frame Configuration.

 Works with receiver modules: 510 104 102 510 104 120 510 104 123 510 104 133 510 104 134 510 104 136 510 104 149 510 104 206 510 104 243 510 104 261 510 104 306	 Designed to support the Racal "Adapt-a-Switch" and the VTI Instruments SMIP II instrumentation cards
Strain Relief Plate for Select Receiver Modules Part # 510 109 116	Strain Relief Plate for 160 Pin DIN VXI Connectors Part # 510 109 338
 Works with QuadraPaddle receiver modules: 510 150 130 510 150 115	 Works with QuadraPaddle receiver modules: 510 150 131 510 150 116
Strain Relief Plate for QuadraPaddle 192 Position Receiver Modules • Part # 510 109 349	Strain Relief Plate for QuadraPaddle 480 Position Receiver Modules • Part # 510 109 348
 Works with all receiver modules	 Works with all ITA modules NOTE: Plate is not needed for ITAs with cable clamps
Strain Relief Plate for Receiver Modules Part # 510 109 298	Strain Relief Plate for ITA Modules Part # 510 109 296



Cross Reference for Receivers with Platforms Accessories

	S6 RECEIVER 310 122 100	15" S6 RECEIVER 310 122 101	20" S6 RECEIVER 310 122 108	15" G12 RECEIVER 310 104 325	20" G12 RECEIVER 310 104 334	15" G12X RECEIVER 310 104 386	20" G12X RECEIVER 310 104 385	G20 RECEIVER 310 120 188 (193)	G20X RECEIVER 310 120 186 (183)	20" 9025TR 310 104 435	20" 9050TR 310 104 369
ACCESSORIES											
CABLE TRAY - 310 113 424		X	X	X	X	X	X			X	
KEYBOARD TRAY KIT 310 113 439		X	X	X	X	X	X			X	X
ADJUSTABLE LEG KIT 310 113 566			X		X		X			X	X
INSTRUMENT BRACKET KIT WITH STRAIN RELIEF * - 310 113 453		X	X	X	X	X	X			X	
RACK EXTENDER KIT, S6 310 113 430	X	X	X								
RACK EXTENDER KIT, G12 310 113 406				X	X						
RACK EXTENDER KIT, G12X 310 113 519						X	X				
GAP COVER ** - 310 113 433				X	X	X	X				
15" PLATFORM KIT - 310 113 435	X										
20" PLATFORM KIT - 310 113 525	X										
RACK EXTENDER KIT, 9025TR 310 113 494										X	
24" SLIDE KIT - 310 113 410		X	X	X	X	X	X	X	X		
28" SLIDE KIT - 310 113 451		X	X	X	X	X	X	X	X	X	X
30" SLIDE KIT - 310 113 411		X	X	X	X	X	X	X	X	X	X
36" SLIDE KIT - 310 113 500		X	X	X	X	X	X	X	X	X	X
ADAPTER PLATE FOR ICON MODULES - 310 113 606									X		
MOUNTING FLANGE KIT, NI PXI-1045 - 310 113 622								X	X		
MOUNTING FLANGE KIT, PICKERING 40-923 - 310 113 644								X	X		
MOUNTING FLANGE KIT, KEYSIGHT M9018A - 310 113 622								X	X		

NOTES:
* The instrument bracket kit is incompatible with the cable tray.
**The gap cover is incompatible when using a rack extender kit.

Cross Reference for Module Screw Sizes

Module Part #	SOCKETHEAD 4-40 X .56 SST	SOCKETHEAD 4-40 X .625 SST	SOCKETHEAD 4-40 X .750 SST	SOCKETHEAD CAP- TIVE 4-40 X .562 SS	FLATHEAD 2-56 X .5 SST
510 104 109		X			
510 104 118					
510 104 120					
510 104 123					
510 104 128		X			X
510 104 133		X			
510 104 134		X			
510 104 135		X			
510 104 136		X			
510 104 139		X			
510 104 149		X			
510 104 150	X				
510 104 155	X				
510 104 160	X				
510 104 185		X			
510 104 187		X			
510 104 206		X			
510 104 224		X			
510 104 243		X			
510 104 249			X		
510 104 251			X		
510 104 260			X		
510 104 261		X			
510 104 266			X		
510 104 267	X				
510 104 270	X				
510 104 307				X	
510 108 101	X				
510 108 111	X				
510 108 112	X				
510 108 115	X				
510 108 124	X				
510 108 125	X				
510 108 126	X				
510 108 131	X				
510 108 132	X				

Cross Reference for Module Screw Sizes, cont.

Module Part #	SOCKETHEAD 4-40 X .56 SST	SOCKETHEAD 4-40 X .625 SST	SOCKETHEAD 4-40 X .750 SST	SOCKETHEAD CAP- TIVE 4-40 X .562 SST	FLATHEAD 2-56 X .5 SST
510 108 138	X				
510 108 140	X				
510 108 144		X			
510 108 148	X				
510 108 160		X			
510 108 169		X			
510 108 178	X				
510 108 179		X			
510 108 210	X				
510 108 242			X		
510 108 245	X				
510 108 251			X		
510 108 262	X		X		
510 108 263	X				
510 108 264		X			
510 108 281				X	
510 150 115			X		
510 150 116			X		
510 150 130			X		
510 150 131			X		
510 150 135			X		
510 150 136			X		
510 150 137			X		
510 150 147			X		
510 151 105			X		
510 151 106		X			
510 151 107		X			
510 151 108		X			
510 151 121					X
510 151 124		X			
510 170 101				X	
510 171 101				X	

Cross Reference for 90 Series ITA Contacts and ITA Modules

[illegible]

Cross References

Cross Reference for iCon Receiver Contacts and Receiver Modules

RECEIVER CONTACTS	RECEIVER MODULES													
	510 160 101	510 160 102	510 160 103	510 160 104	510 160 105	510 160 106	510 160 107	510 160 108	510 160 109	510 160 110	510 160 111	510 160 112	510 160 113	510 160 114
610 102 119														X
610 102 133														X
610 104 114		X	X	X										
610 104 140		X	X	X										
610 104 141		X	X	X										
610 104 142		X	X	X										
610 104 149		X	X	X										
610 110 101			X					X	X		X			X
610 110 128			X					X	X		X			X
610 110 167			X					X	X		X			X
610 110 177			X					X	X		X			X
610 110 179			X					X	X		X			X
610 113 131										X				
610 113 132										X				
610 113 144									X					
610 113 170		X	X	X										
610 113 172		X	X	X										
610 116 112		X	X	X										
610 131 108		X	X	X										
610 138 117*					X							X	X	
610 138 118*					X							X		
610 138 200					X							X	X	
610 138 216	X	X					X							
610 140 101						X	X				X	X	X	
610 140 102						X	X				X	X	X	
610 140 103						X	X				X	X	X	
610 140 104						X	X				X	X	X	
610 142 101						X	X				X	X	X	
610 142 102						X	X				X	X	X	
610 149 101														X

* Must be used with 610 138 200

Cross Reference for iCon ITA Contacts and ITA Modules

ITA CONTACTS	ITA MODULES												
	510 161 101	510 161 102	510 161 103	510 161 104	510 161 106	510 161 107	510 161 108	510 161 109	510 161 110	510 161 111	510 161 114	510 161 115	510 161 124
610 102 118											X	X	
610 102 132											X	X	
610 103 115		X	X	X									
610 103 129		X	X	X									
610 103 130		X	X	X									
610 103 136		X	X	X									
610 103 140		X	X	X									
610 103 150		X	X	X									
610 103 152		X	X	X									
610 103 161		X	X	X									
610 103 172		X	X	X									
610 103 184		X	X	X									
610 110 108			X				X	X		X		X	
610 110 113			X				X	X		X		X	
610 110 129			X				X	X		X		X	
610 110 169			X				X	X		X		X	
610 113 133									X				
610 113 134									X				
610 113 145								X					
610 113 171		X	X	X									
610 113 173		X	X	X									
610 115 124		X	X	X									
610 115 125		X	X	X									
610 132 106		X	X	X									
610 138 109	X	X				X							
610 138 112	X	X				X							
610 138 115	X	X				X							
610 138 122	X	X				X							
610 141 101					X	X				X			
610 141 102					X	X				X			
610 141 103					X	X				X			
610 141 104					X	X				X			
610 143 101					X	X				X			
610 150 101													X

Cross Reference for ITA Contacts and Tools

[illegible]

Cross Reference for Mating Contacts

Cross References

Cross Reference for Mating Contacts

Cross References