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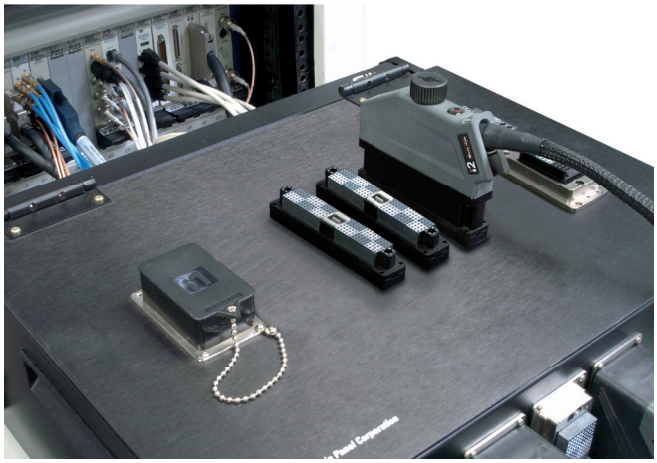
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i2 Micro iCon 168 Pin Signal Solution

Virginia Panel Corporation's newest connector solution, i2 Micro iCon, is ideal for small connector needs. Following the success of VPC's popular rack and panel connector, iCon™, i2 was developed to satisfy the need for an even smaller connector.



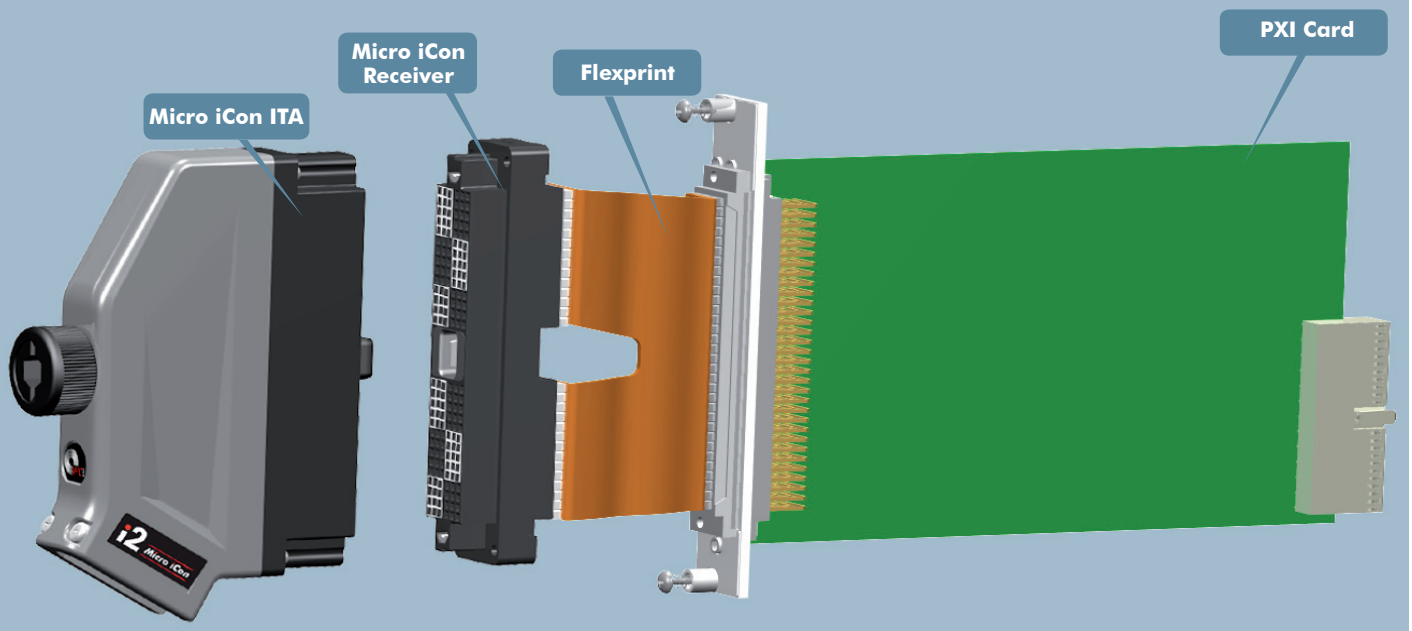


The i2 offers a solid state, one piece module receiver in each connector, making it the perfect solution for low I/O applications. The solution will be manufactured to the high quality standards that VPC holds for all of its products.

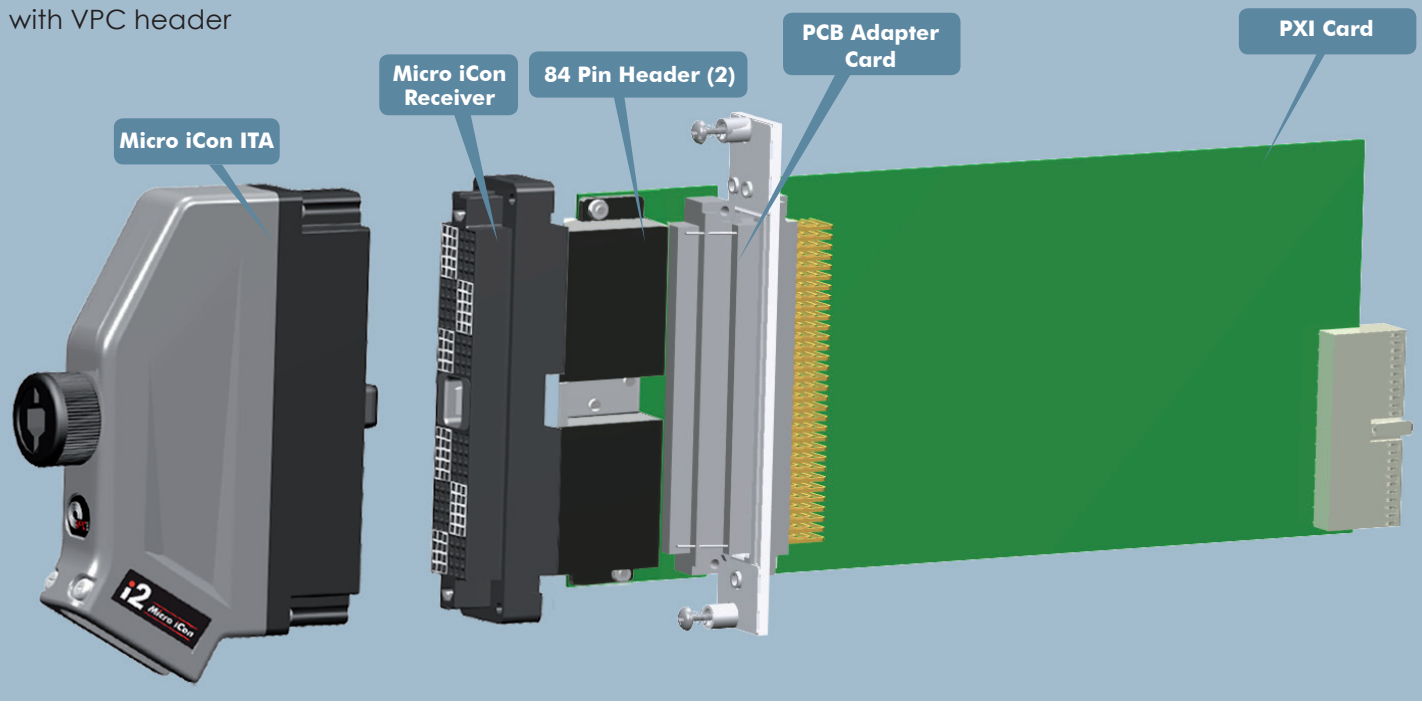
Features and Benefits

- Rugged engagement mechanism engineered for 10,000 cycles
- Sleek 0.8" footprint
- 168 signal positions available using VPC's QuadraPaddle technology
- Hybrid solution offers 144 signal points with 6 micro coax pins
- Standard or twin female signal contacts allow PCB mountability
- 84 pin header contains solderless pins and enables direct connection from the i2 receiver to PXI card
- Locking tabs with spring locks ensure even locking and engagement
- Optional keying prevents damage to connectors
- Straight-in locking prevents stubbing of pins
- Easy access to wiring with removable ITA backshell
- Rugged durability withstands drop and vibration testing

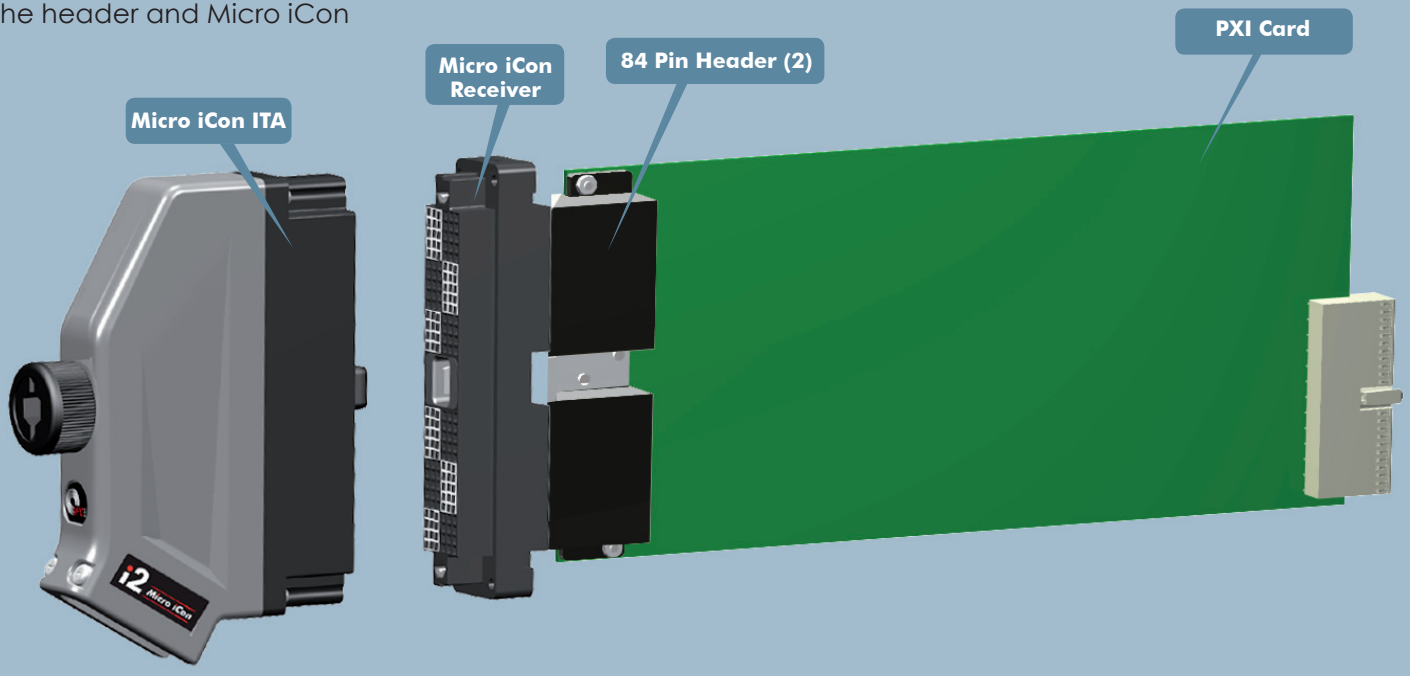
Option #1
PXI card to flexprint



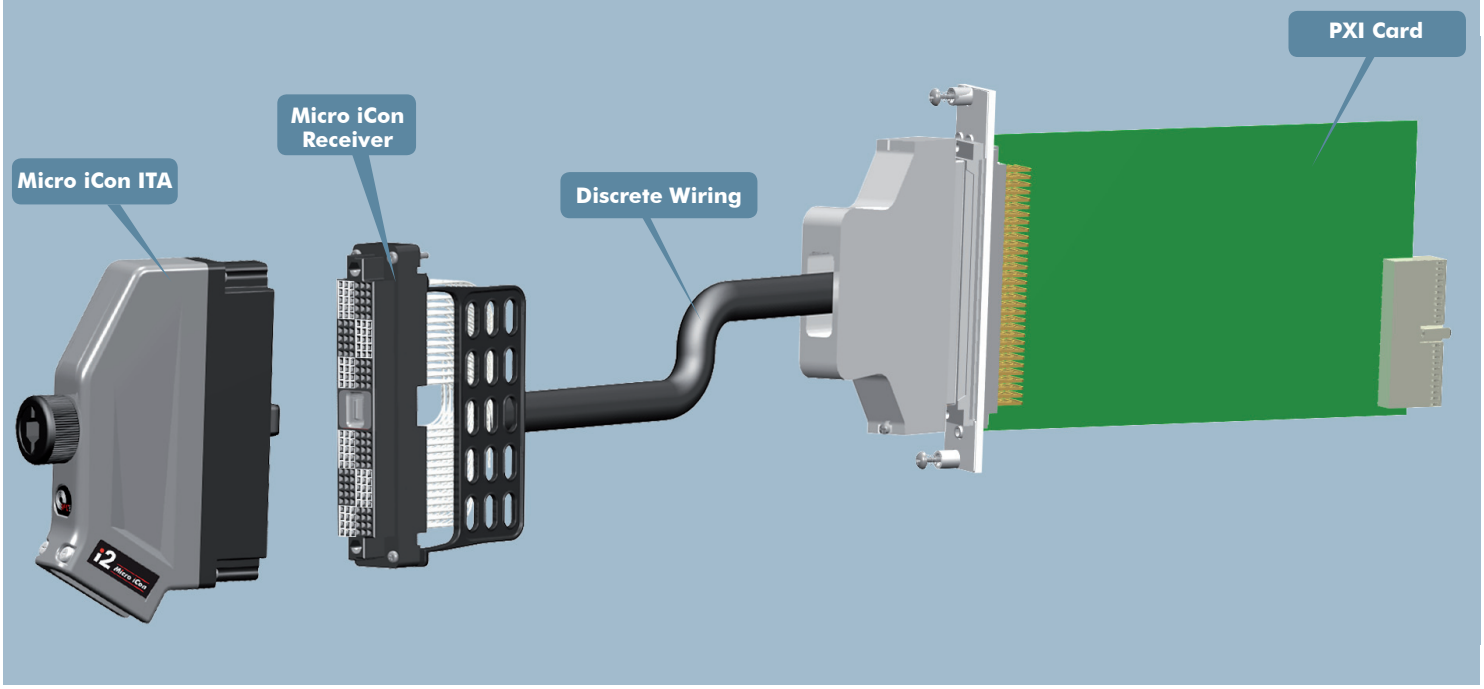
Option #2
PXI card to PCB adapter card
with VPC header



Option #3
Extended PXI card directly connected to the header and Micro iCon



Option #4
Discrete-wire to Micro iCon

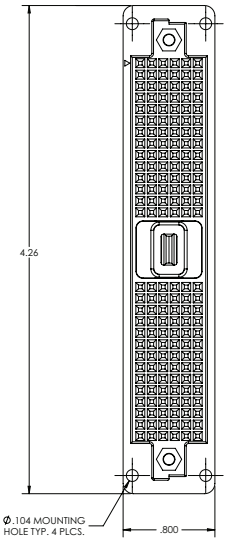


i2 Receiver

Specifications

Frame Material	Thermoplastic
Hardware Material	Stainlees Steel Alloy
Available Contact Positions	168
Cycle Life	10,000 Cycles
Temperature	-55° C to 100° C



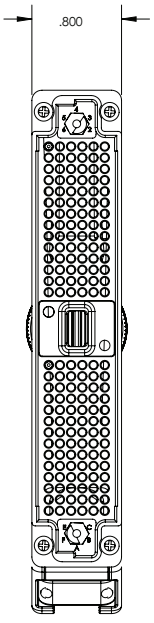


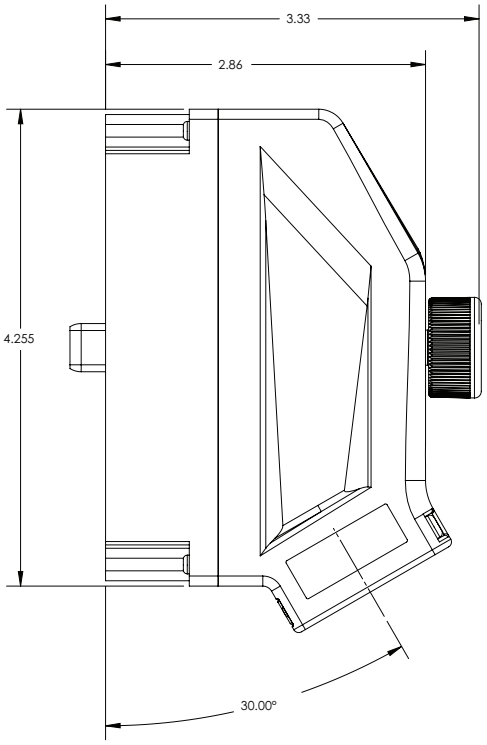
i2 ITA

Specifications

Frame Material and Clamp Housing	Thermoplastic
Backshell	Thermoplastic
Cable Clamp Material	Powder-coated aluminum
Available Contact Positions	168
Cycle Life	10,000 Cycles
Temperature	-55° C to 100° C

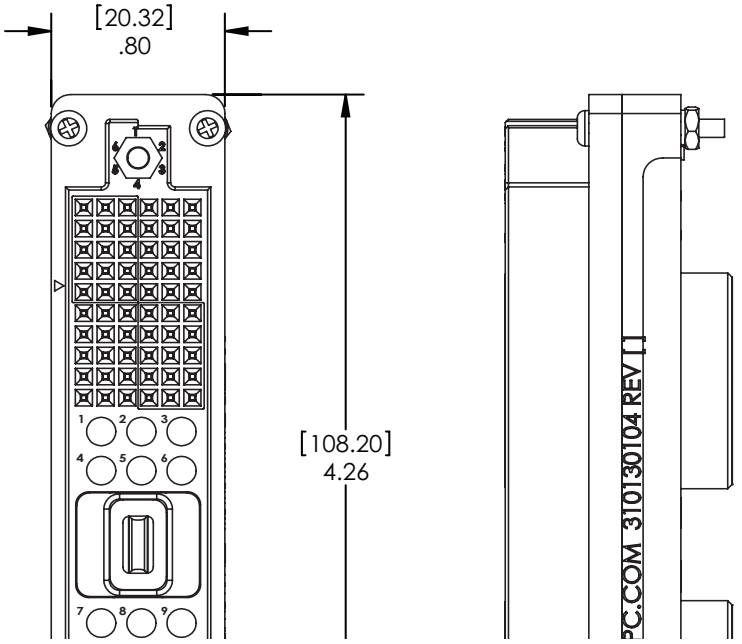






Part #	Description
RECEIVER	
310 130 101	Receiver, i2 Micro iCon, 168 Position, Fully Loaded with 610 138 100 Twin Female Contacts
310 130 102	Receiver, i2 Micro iCon, 168 Position, for Crimp Contacts
ITA	
410 130 101	ITA, i2 Micro iCon, 168 Position, for Crimp Contacts
ACCESSORIES	
310 113 569	Protective Cover, i2 Micro iCon, Receiver
410 112 924	Protective Cover, i2 Micro iCon, ITA

i2: Hybrid

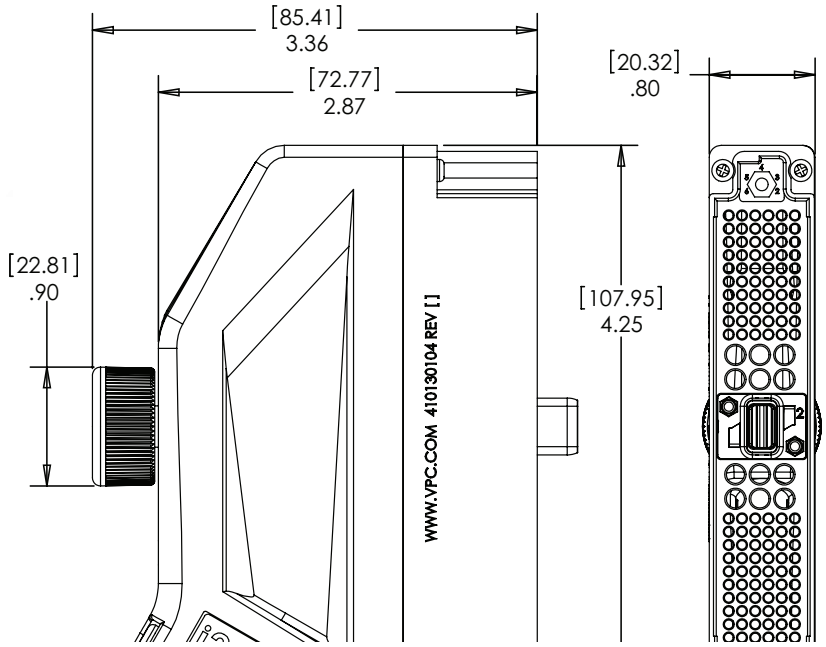




Hybrid version of i2 Micro iCon offers 144 QuadraPaddle™ signal pins and 6 micro coax pins

ITA Removable Backshell and Engagement Knob - Allow easy access to wiring



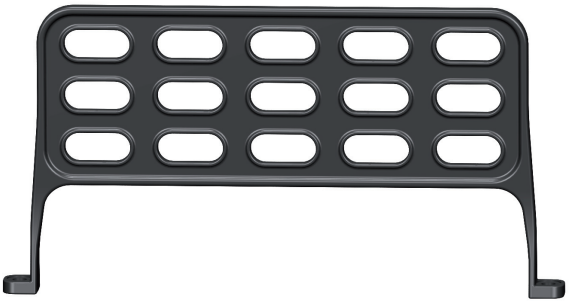


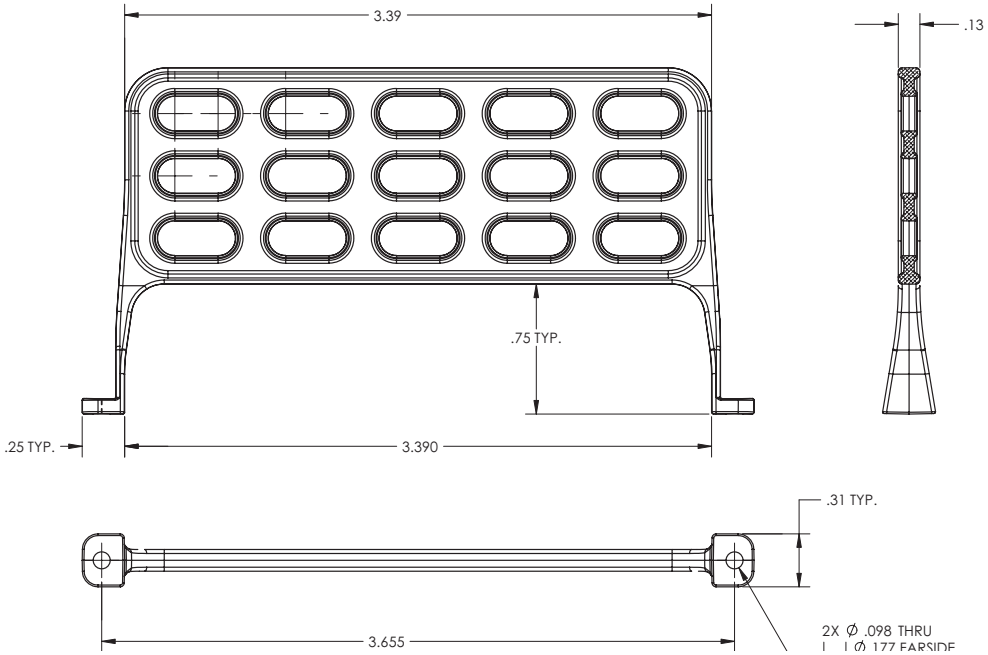
Part #	Description
RECEIVER	
310 130 104	Receiver, i2 Micro iCon, 144/6
ITA	
410 130 104	ITA, i2 Micro iCon, 144/6

Strain Relief Plate

Specifications

Frame Material	Thermoplastic
Hardware Material	Stainlees Steel Alloy
Available Contact Positions	168
Cycle Life	10,000 Cycles
Temperature	-55° C to 100° C



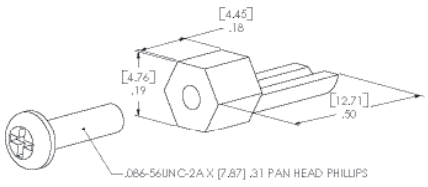


Keying Pins

Specifications

Material	Clear Anodized Aluminum
Temperature	-55° C to 100° C





Part #	Description
ACCESSORIES	
310 113 461	Keying Pin Kit, iCon, Receiver and ITA
310 113 559	Strain Relief Plate, i2 Micro iCon, Receiver

QuadraPaddle Signal Contacts®

Contact Specifications

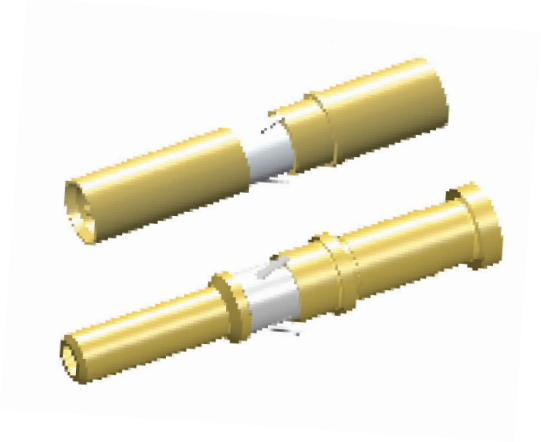
Operating Current and Voltage	5 Amp Max. Continuous; 600 volt Max. use of wire Mil-W-16878/4
Contact Resistance	25 mOhms Max. Measured at 50 mV @ 100 mA
Mating Force	2 oz. Nominal [0.05 Kg]
Dielectric Withstanding Voltage (DWV)	1500 VDC Min.
Insulation Resistance	5000 Mohms Min.
Contact Body	(RCV) – BeCu (Twin Female) BeCu/PhBrz (Crimp) Male (ITA) – Brass
Contact Plating	Female (RCV) – 50μ" Au over 100μ" Ni Male (ITA) – 30μ" Au over 100μ" Ni
Cycle Life	20,000 cycles



Micro Coaxial Contacts

Contact Specifications

Characteristic Impedance	50 Ohm 75 Ohm • for RG 179
Frequency Range	DC – 3 GHz • for RG 316, RG 178 DC – 10.5 GHz • for RG 316DS DC – 1 GHz • for RG 179
Contact Isolation	-90 dB minimum
VSWR	1.22 @ 3 GHz
Mating Force	1.5 lbs Max. [0.68 Kg]
Insertion Loss	– √f(GHz) x .06 dB
Dielectric Withstanding Voltage (DWV)	1500 V RMS
Cycle Life	10,000 cycles

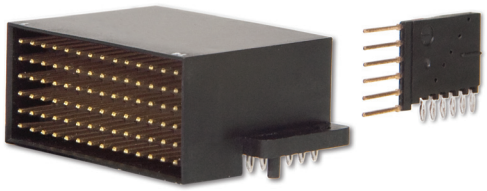


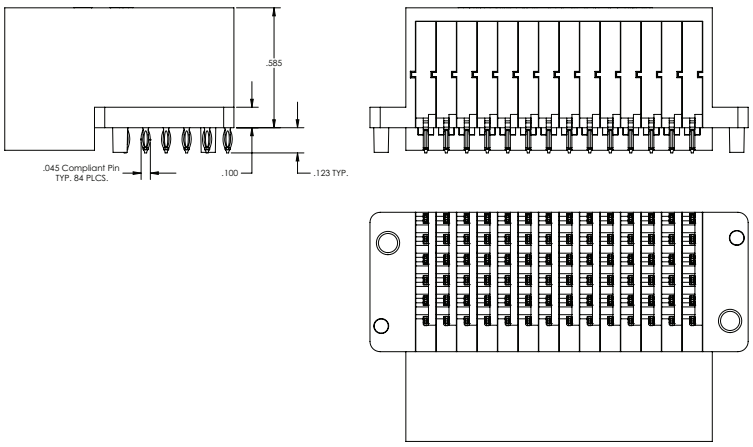
Part #	Description
QUADRAPADDLE RECEIVER CONTACTS	
610 138 100	Signal Contact, Receiver, QuadraPaddle, 5 Amp, Twin Female – Replacement
610 138 116	Signal Contact, Receiver, QuadraPaddle, 5 Amp, 22-28 AWG, Crimp
QUADRAPADDLE ITA CONTACTS	
610 138 109	Signal Contact, ITA, QuadraPaddle, 5 Amp, 22–24 AWG, Crimp/Solder
610 138 112	Signal Contact, ITA, QuadraPaddle, 5 Amp, 26–30 AWG, Crimp/Solder
MICRO COAXIAL RECEIVER CONTACTS	
610 140 101	Micro Coaxial Contact, Receiver, RG 316, Crimp
610 140 102	Micro Coaxial Contact, Receiver, RG 178, Crimp
610 140 103	Micro Coaxial Contact, Receiver, RG 179, Crimp
610 140 104	Micro Coaxial Contact, Receiver, RG 316 Double Shield, Solder
MICRO COAXIAL ITA CONTACTS	
610 141 101	Micro Coaxial Contact, ITA, RG 316, Crimp
610 141 102	Micro Coaxial Contact, ITA, RG 178, Crimp
610 141 103	Micro Coaxial Contact, ITA, RG 179, Crimp
610 141 104	Micro Coaxial Contact, ITA, RG 316 Double Shield, Solder

84 Pin Header

Specifications

Material - Modules	Thermoplastic
Material - Contacts	Gold-plated phos-bronze
Available Contact Positions	84

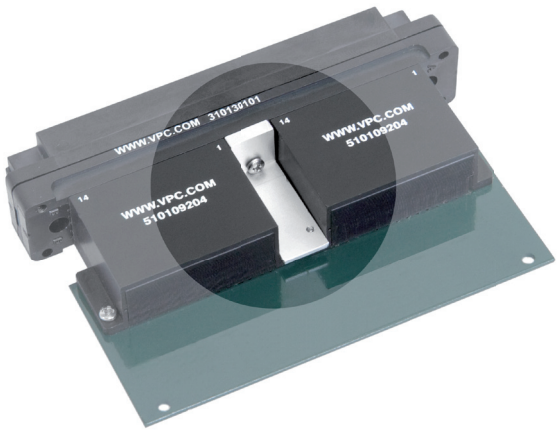


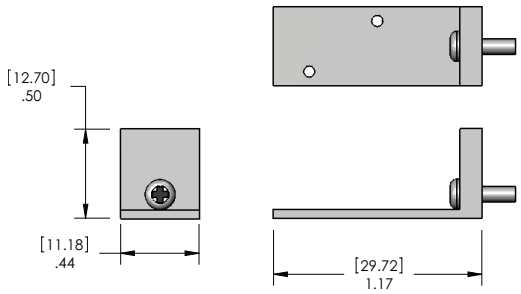


Receiver Bracket for PCB Mounting

Specifications

Material	2024 aluminum with a clear chromate finish





Part #	Description
ACCESSORIES	
310 113 562	Bracket, i2 Micro iCon, Receiver, for PCB Mounting
510 109 204	Header, 84 Pin, Right Angle, Solderless

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