Infinity Receptacle





Amphenol's INFINITY (4x/12x) series of connectors facilitate data speeds up to 60 Gbps total bandwidth, as required by InfiniBand[™], Fibre Channel and Serial Attached SCSI Trade Associations, with superior EMI performance. INFINITY connectors are high-density, hot pluggable and meet SFF 8470 specifications.

A variety of receptacles are available that will fit multiple connectors into a 1U form factor and PCI bracket. All receptacles are available with standard or RoHS compliant materials. They are capable of data rates beyond 5.0 Gbps per channel. 4x and 12x versions of receptacles are available with lanyard latch or screw lock styles.

Specification Highlights

The Infinity interconnect system is comprised of a 0.8 mm pitch SMT receptacle complying with SFF-8470.

Mechanical Characteristics

- Co-planarity specification: 0.1 mm
- Connector insertion force: 55.5 N max (4x version)
- Connector withdrawal force: 6.1 N typical (4x version)
- Durability: 250 mating cycles minimum

Electrical Characteristics

- Differential impedance: 100 Ω +/- 10 Ω
- DWV: 300 V AC
- Insulation resistance: 10 G Ω min
- Contact resistance: 80 m Ω max
- Rise time for impedance measurement: 70 ps
- Within pair skew: 5 ps

Options

- Number of channels
- 4x 12x
- Mating style
 - Screw lock style
 - Lanyard latch style
- Mounting style
 - Screw mount
 - Solder post
 - Extended arms

Materials

- Shell
 - Base material: zinc alloy
 - Plating: nickel
 - Rear cover: stainless steel
 - Jack screw: steel with nickel plating
 - Gasket: stainless steel
 - Locking plate: stainless steel
- Connector
 - Contact base material: copper alloy
 - Contact plating: gold on mating area; tin or tin-lead on termination
 - Housings: glass reinforced, lead-free solder reflow process compatible thermoplastic, UL94V-0 rated

Temperature Rating

- Operating temperature: -40 °C to +85 °C
- Storage temperature: -40 °C to +85 °C

Packaging

- Tape and reel packaging
- Tray packaging



Lanyard latch with rear arms and solder posts U65-B04-40C0-T



Lanyard latch with rear arms, screw mount U65-E04-2010



Lanyard latch with top mounting, rear arms U65-H04-40D0-T

HIGH SPEED I/O PRODUCTS

H - M2 Screw Mount in Front and Solder Posts in Back (6-PCB Hole Applications Only) KEYING OPTION OR MODIFIER 0 - Standard (No keying) XX NUMBER OF CHANNELS 04 - 4x 12 - 12x 0 - Standard (No keying) X CONTACT PLATING 1 - 50µ" Gold Plating 2 - 30µ" Gold Plating 4 - 50µ" Gold Plating (RoHS) MATING STYLE 1 - Lanyard Latch Style 2 - Screw Lock Style for 6 PCB Holes (extended arms) 8 - Screw Lock Style for 6 PCB Holes (extended arms) 7 - same as 6 with Top Mounting Ear 9 - same as 8 with Top Mounting Ear	ons	Contact Amphenol for additional options	Ordering Information
X STYLE A - R/A Surface Mount (Without Locating Post), [Lanyard Application Only] B - Solder Posts (With Locating Post) C - Rear Cover / Tape & Reel Packaging C - Long Solder Posts for 4 mm PCB M2 Screw Mount Application F - Belly to Belly Design M - M2 Screw Mount in Front and Solder Posts in Back (6-PCB Hole Applications Only) MMINBER OF CHANNELS Q4 - 4x 12 - 12x X CONTACT PLATING 1 - Solu" Gold Plating 2 - Sorew Lock Style 2 - Sorew Lock Style for 6 PCB Holes (extended arms) 3 - Solu" Gold Plating 4 - 50µ" Gold Plating 4 - 50µ" Gold Plating 9 - same as 6 with Top Mounting Ear			Infinity Receptacle
XCONTACT PLATING6Lanyard Latch Style for 6 PCB Holes (extended arms)1- 50µ" Gold Plating8- Screw Lock Style for 6 PCB Holes (extended arms)2- 30µ" Gold Plating7- same as 6 with Top Mounting Ear4- 50µ" Gold Plating (RoHS)9- same as 8 with Top Mounting Ear	x 0 x	Blank - Tray Packaging T - Tape and Reel Packaging C - Rear Cover / Tray Packaging CT - Rear Cover / Tape & Reel Packaging M2 Screw Mount Application M - M2 Screws included / Tray Packaging MT - M2 Screws included / Tape and Reel Packaging CM - Rear Cover w/ M2 Screws Included / Tray Packaging CMT - Rear Cover w/ M2 Screws Included / T& R Packaging CMT - Rear Cover w/ M2 Screws Included / T & R Packaging CMT - Rear Cover w/ M2 Screws Included / T & R Packaging CMT - Screws Included / T & R Packaging MATING STYLE X	 X STYLE A - R/A Surface Mount (Without Locating Post), (Lanyard Application Only) B - Solder Posts (With Locating Post) C - Long Solder Post for 4 mm PCB E - M2 Screw Mount (With Locating Post) F - Belly to Belly Design G - High Profile Belly to Belly H - M2 Screw Mount in Front and Solder Posts in (6-PCB Hole Applications Only) XX NUMBER OF CHANNELS 04 - 4x
 6 - 50μ" Gold Plating w/Lubrication 7 - 30μ" Gold Plating w/Lubrication X ACCESSORIES OPTION 0 - Ship with C-clips or Regular Jack Screw 1 - One Piece Clip or Self-Locking Jack Screw 2 - No Locking Plate or Jack Screw (Order Separately) INFINITY RECEPTACLE ACCESSORIES (ORDER SEPARATELY) (U65-404-21-P = 4x One-piece lock plate* (U65-404-61-P = 4x Belly-To-Belly Optical rear cover (U65-404-61-P = 4x Belly-To-Belly Optical rear cover (U65-412-21-P = 12x One-piece lock plate* (U65-404-40-P = Thumbscrews (standard)** (U65-404-41-P = Thumbscrews (self-locking w/ Nylok)** 		 6 - Lanyard Latch Style for 6 PCB Holes (extended arms) 8 - Screw Lock Style for 6 PCB Holes (extended arms) 7 - same as 6 with Top Mounting Ear 9 - same as 8 with Top Mounting Ear INFINITY RECEPTACLE ACCESSORIES (ORDER SEPARATELY) U65-404-21-P = 4x One-piece lock plate* U65-404-60-P = 4x Optical rear cover U65-404-61-P = 4x Belly-To-Belly Optical rear cover U65-412-21-P = 12x One-piece lock plate* U65-412-20-P = 12x Optical rear cover U65-404-40-P = Thumbscrews (standard)** 	 1 - 50µ" Gold Plating 2 - 30µ" Gold Plating 4 - 50µ" Gold Plating (RoHS) 5 - 30µ" Gold Plating (RoHS) 6 - 50µ" Gold Plating w/Lubrication 7 - 30µ" Gold Plating w/Lubrication X ACCESSORIES OPTION 0 - Ship with C-clips or Regular Jack Screw 1 - One Piece Clip or Self-Locking Jack Screw

* Lanyard application only ** Screwlock application only *** Screwlock 12x application only

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