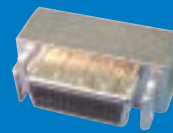# Infinity Receptacle

U65-B12-1020T

U65-B04-1010T

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 GΩ min
- Contact resistance: 80 mΩ 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

Ordering Information

Contact Amphenol for additional options

Infinity Receptacle

U65-XXX-XXX0-X

U65	SERIES DESIGNATION

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 Back (6-PCB Hole Applications Only)

XX **NUMBER OF CHANNELS**
- **04** - 4x
- **12** - 12x

X **CONTACT PLATING**
- **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
- **2** - No Locking Plate or Jack Screw (Order Separately)

PACKAGING **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

KEYING OPTION OR MODIFIER **0**
- **0** - Standard (No keying)

MATING STYLE **X**
- **1** - Lanyard Latch Style
- **2** - Screw Lock Style
- **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*
- **U65-412-60-P** = 12x Optical rear cover
- **U65-404-40-P** = Thumbscrews (standard)**
- **U65-404-41-P** = Thumbscrews (self-locking w/ Nylok)**

Notes
- * Lanyard application only
- ** Screwlock application only
- *** Screwlock 12x application only

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for I/O Connectors *category:*

Click to view products by Amphenol *manufacturer:*

Other Similar products are found below :

571763P 58098-0628 72.250.1628.2 72.250.2428.2 74720-0505 76.350.0729.0 76871-1403 FCN-244F080-G/1 FCN-260A9920 MP-5T180MUNNA-005 PCR-E36PM PCS-XE26MA+ G38A71314B 1571250010 157-22500-3 MS3471L14-19P L/C 192991-0703 172501-4002 172501-6002 FCN-260C008-A/L0 FCN-260C024-AL0 FCN-261Z008 2000314-1 200331-1 PCR-E36FC+ PCS-E28FS+ PCS-XE26SLFD+ PCS-XE26SLFDT+ G730VID08BDC24 HDR-E14MSG1+ U90B2054081210 UE86K842720321 38113800006 DP3AR020WQ1R200 Z4.102.0680.0 500-1040 500-1052 500-1054 ZP-4008-66L 0709821002 DX40-20P(55) 5554841-1 MS3474W18-8P-LC* SM3106F14S-7S-LC U90B3054061110 U65-E04-4020 ZPF00000000097891 557-262M2-06C 747360449 10099439-003C-TRLF