

ExpressPort™ QSFP+ (Stacked)

The QSFP+ Stacked Combo interconnect system consists of a 2-row, 38 position, 0.8 mm pitch connector designed to be compatible with the Quad Small Form-factor Pluggable (QSFP) Transceiver Specifications. The connector system is capable of data rates up to 25 Gbps per channel (four channels) and is intended for external connections (38 positions per port). High speed serial interconnect applications include clusters, servers, and storage devices.



U90-B105-2061-120



U90-B105-2061-120
(front view)

Specification Highlights

The interconnect system is comprised of a 2-row, 38-position, 0.8 mm pitch connector and cage assembly as one unit complying with SFF-8436.

General Characteristics

- RoHS Compliant
- Industry Standard Footprint
- Press-fit Cage and Connector Combo for min 1.57 mm (0.0625") PCB thickness

Mechanical Characteristics

- Durability: 250 Mating Cycles min
- Insertion Force: 40 N max
- Withdrawal Force: 30 N max

Electrical Characteristics

- Operating Voltage: 30 V
- Operating Current: 0.5 A
- DWV: 300 V AC
- Insulation Resistance: 1000 MΩ min
- Contact Resistance: 80 mΩ max

Packaging

- Tray Packaging: Cage of all Sizes

Materials

- Cage
 - Base Material: Copper Alloy
 - Plating: Nickel
 - Light Pipe: Optical Grade Polycarbonate
 - Heat Sink: Aluminum Alloy
 - Heat Sink Clip: Stainless Steel
 - Dust Cover: Thermoplastic
- Connector
 - Contact Base Material: Copper Alloy
 - Contact Plating: Gold on Mating Area, Matte Tin on Terminations and Grounding Tabs
 - 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

Configurations (Rows x Ports per Row)

- 2x1
- 2x2
- 2x3
- 2x4
- 2x6

Options

- Dust Cover
- Heat Sink
- Light Pipe
- EMI Shielding

Stacked QSFP+

U90 - B X X X - 4 X X 1 - X X 0

| | | | | |
|------------|--|--|--|---|
| U90 | SERIES DESIGNATION (RoHS) | | CONNECTOR FOOT PRINT 0 - Standard | X |
| B | STYLE B - Standard | | VENT HOLES AND EMI COVER 0 - With Large Vent Holes and EMI Cover 1 - With Large Vent Holes, No EMI Cover 2 - With Small Vent Holes and EMI Cover 3 - With Small Vent Holes, No EMI Cover 4 - With Rectangular Vent Holes and EMI Cover 5 - With Rectangular Vent Holes, No EMI Cover 6 - With Large Vent Holes and Heat Sink | X |
| X | NUMBER OF PORTS IN ROW 1 - 2x1 2 - 2x2 3 - 2x3 4 - 2x4 6 - 2x6 | | EMI GASKET 1 - Chomerics 1273 Conductive Elastomer 2 - Chomerics S6305 Conductive Elastomer 3 - Through the Bezel | X |
| X | HEAT SINK OPTION 0 - No Heat Sink or Clip Shipped X - Options Available Upon Request Contact Sales for Details | | PACKAGING 1 - Tray Packaging | 1 |
| X | APPLICATION 5 - Press Fit Pins (2 mm Long) X - Options Available Upon Request Contact Sales for Details | | LIGHT PIPES OPTION 6 - With Light Pipes (Triangular Outlet); Left Arrow Pointing Bottom Outlet and Right Arrow Pointing Top Port 7 - Without Light Pipes 8 - With Light Pipes; Left Arrow Pointing Top Port and Right Arrow Pointing Bottom Port | X |
| 4 | CAGE AND CONNECTOR CONTACT PLATING 4 - 0.76 µm Min. Gold over 1.27-3.81 µm of Nickel on Mating Area; 0.381-1.52 µm of Matte Tin Over 1.27-3.81 µm of Nickel on Press Fit Tail Area; Nickel Plating for Cage | | | |
| X | DUST COVER OPTION 0 - Without Dust Cover D - With Dust Cover (Shipped Loose) | | | |