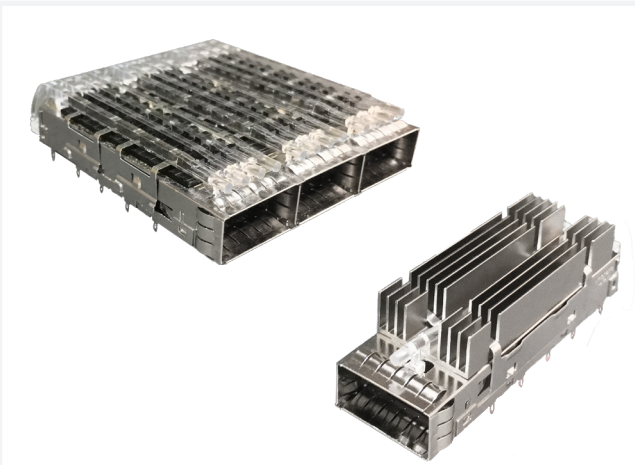
ExtremePort™ QSFP+

Amphenol ICC's ExtremePort™ QSFP+ interconnect system is comprised of a 38-position, 0.8mm pitch connector built for use in high speed serial applications. Each port offers 4 channels to increase port density which allows for more board real estate and cost optimized solutions. The ExtremePort QSFP+ connector supports next generation 200G+ applications and transmits up to 56Gb/s PAM4 per channel. It features a stamped and formed contact design providing improved mechanical durability. The resonance dampening features of the design allow for superior signal integrity performance. The design minimizes crosstalk and transmission line impedance discontinuity across the connector interface.

- Electrical interface employs 4 lanes that operate up to 56Gb/s PAM4 modulation, providing solutions up to 200Gb/s aggregate bandwidth
- Backwards compatible with QSFP28
- Meets CEI-56GPAM4 VSR requirements



TARGET MARKETS

TECHNICAL INFORMATION

MATERIAL

- Housing: Black color, Glass reinforced, Lead Free Solder Reflow Process Compatible Thermo Plastic
- Contacts Base Material: Phosphor Bronze
- Cage Base Material: Copper Alloy
- Plating Solder Tails: Matte tin
- Plating Mating Area: Gold
- Resonance Dampening Feature: Conductive Polymer

MECHANICAL PERFORMANCE

- Durability: 250 mating cycles
- Contact Normal Force: 0.5 N min./PIN
- Mating Force: 60 N max.
- Unmating Force: 30 N max.
- PCB Thickness Single Side (Cage): 1.44 mm (0.057in.) min.
- PCB Thickness Belly to Belly (Cage): 2.35 mm (0.093in.) min.
- Insertion Force to PCB (Cage):
  - 780 N for 1 port
  - 1000 N for 2 Ports
  - 1700 N for 4 Ports

ELECTRICAL PERFORMANCE

- Operating Voltage: 30 VDC per contact
- Operating Current: 0.5 A per contact
- Differential Impedance: 100Ω +/- 10Ω

ENVIRONMENTAL

- Operating and (Storage) Temperature: -20° to +85° C
- RoHS & Halogen-Free

TOOLING INFORMATION

- Configurations:
  - 1XN (N=1,2,3,4,6)
  - 2XN (N=1,2,3)

PACKAGING

- Connector: Tape and Reel
- Cage: Tray, Tape and Reel Available for Single Port cage

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