



Introducing z-Quad Small Form-factor Pluggable Plus (zQSFP+) Interconnect System

TE's zQSFP+ (z-Quad Small Form-factor Pluggable Plus) connector and cage assembly has been designed for applications in the telecommunications, data center and networking markets that require a high-speed, high-density connector. The interconnect offers four channels of high-speed differential signals with data rates ranging from 25 Gbps up to potentially 40 Gbps, and will support 100 Gbps (4x25 Gbps) Ethernet and 100 Gbps 4X InfiniBand Enhanced Data Rate (EDR) requirements.





KEY FEATURES

- Backwards-compatible with QSFP optical modules and cable assemblies
- Enhanced EMI cage helps provide excellent thermal performance/EMI protection
- 1x1 single port / 1x3 ganged cages with heat sink and light pipe options
- Coupled, narrow-edged, blanked- and formed-contact geometry/insert molding
- Staggered press-fit pins for belly-to-belly applications
- High-temperature, thermoplastic housing

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APPLICATIONS

- Telecommunications: Servers, switches, access routers and switches, and cellular infrastructure
- Data Center: Servers and storage
- Medical: Diagnostic equipment
- Networking: Network interface, routers, switches and storage
- Test and measurement equipment

MECHANICAL

- Maximum Mating Force: 40N
- Durability (minimum): 250 cycles
- Operating Temperature: -20°C to +65°C

ELECTRICAL

- Current rating: 0.5 Amps maximum per pin
- Maximum Voltage Rating: 30 VDC

MATERIALS

- Cage assembly: Nickel silver
- EMI springs: Copper alloy
- Front flange: Zinc alloy
- Heat sink: Aluminum
- Heat sink clip material: Stainless steel

SPECIFICATIONS

- 100 Gbps (4x25 Gbps) Ethernet standard (in process)
- 100 Gbps InfiniBand Enhanced Data Rate (in process)

PRODUCT OFFERINGS

TE Part Number	Part Description
1551920-2	zQSFP+ connector assembly
1551891-1	zQSFP+ 1x1 cage assembly behind bezel
2173238-1	zQSFP+ 1x3 cage assembly behind bezel
1551892-1	zQSFP+ 1x1 cage assembly behind bezel with heat sink
2173239-1	zQSFP+ 1x3 cage assembly behind bezel with heat sink

PRODUCT DOCUMENTATION

- Product Specification: 108-19428
- Application Specification for zQSFP+ Connector: 114-32022
- Application Specification for zQSFP+ Cages: 114-32023
- Instruction Sheet: 408-32021



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