

# TE CONNECTIVITY'S 10G SFP+ AND QSFP+ For Thermal Connector and Cage Needs

SFP+			
Currently Using Part Number	Running Into	Switch to Part Number	Solution
2007198-1	Thermal issues	2299056-1	This allows for increased performance and heat dissipation using the same connector and footprint.
1367073-1 1367073-2 1888247-1 1888247-2	A need for a cage	2299056-1	2299056-1 is a 1x1 SFP+ (up to 16 Gbps) cage with a heat sink and clip included. This combination will help dissipate heat efficiently in your system allowing for increased performance and longer transceiver lifecycle.

## SFP+ Product Benefits

SFP+ products extend the use of the Small-Form Factor Pluggable (SFP) interconnect to transfer data at speeds up to 16 Gbps, with an upgrade path to allow for up to 28 Gbps. The portfolio features 20-position SMT connectors that pair with cages in multiple configurations, offering either elastomeric gasket or EMI springs to address EMI containment at higher data rates.

- SFP+ connectors are designed to support up to 16 Gbps signal speeds and are backward compatible with SFP.
- Available in single port, ganged and stacked configurations, belly to belly mounting cages are also available allowing for design and retrofitting flexibility.
- Available with heat sink and light pipe options for visual verification of operability and the ability to dissipate heat.

QSFP+			
Currently Using Part Number	Running Into	Switch to Part Number	Solution
1888617-1	Thermal issues	2170450-1	This allows for increased performance and heat dissipation using the same connector and footprint.
1761987-9 2110819-1	A need for a cage	2170450-1	2170450-1 is a 1x1 QSFP+ (up to 56 Gbps) cage with a heat sink and clip included. This combination will help dissipate heat efficiently in your system allowing for increased performance and longer transceiver lifecycle.

## QSFP+ Product Benefits

The flexibility of the entire QSFP+ portfolio provides a simple upgrade path from single lane to multi lane pluggable I/O ports. The QSFP+ interface includes four channels of data in one pluggable interface. Each lane is capable of transferring data up to 14 Gbps and supports a total of up to 56 Gbps per port. These interconnects have 3x the density of SFP+ products, and include cages in single, ganged, and stacked configurations with various light pipe, bezel mount, and heat sink options.

- 38 position high speed, SMT connector provides 4 channels of data in one pluggable interface. Each channel is capable of transferring up to 14 Gbps.
- Cages offered in single port, ganged and stacked configurations allow for design flexibility.
- Available with heat sink and light pipe options for visual verification of operability and the ability to dissipate heat.