

OSFP optical module cage



Overview

OSFP cages are important items used in a network system to hold OSFP modules and keep them properly aligned. They allow for the exact positioning of the modules, thus ensuring accurate electrical and optical connections. This specification defines the electrical connectors, electrical signals and power supplies, mechanical and thermal requirements of the OSFP Module, connector and cage systems. Designed to support 28G NRZ, 56G PAM4, 112G PAM4, and 224G PAM4. The Octal Small Form Factor Pluggable (OSFP) Connector System provides up to 224Gbps PAM-4 per lane, single- or dual-port, 8- or 16-lane connectivity. These input/output (I/O) solutions support aggregate data rates up to 1.6Tbps, helping data centers meet AI-driven capacity demands with minimal. Amphenol's ExtremePort™ OSFP connector and cage family delivers a scalable, high-performance interconnect platform designed for next-generation data centers, high-density switch/router systems, and high-speed serial infrastructures. It uses 8 lanes at 50G PAM4 (400G) or 100G PAM4 (800G) with a 60-pin edge connector. TE Connectivity's OSFP series supports up to 36 ports in 1RU switches while delivering superior.

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To mate with an electrical connector located in a cage, an OSFP module shall have a protruded printed circuit board with contact pads. A structure in the back of the module serves as a guard to protect the ...



TE's new OSFP 112G cages and connectors add to the wide range of products in the existing OSFP product portfolio providing customers with an 8x112G interconnect solution to support data transfer in ...



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For proper cooling of the OSFP module in the stacked cage, the cage shall have appropriate ventilation holes. From Figure 6-5 to Figure 6-8, the ventilation holes required in the stacked ganged cage are ...



OSFP modules are slightly larger than QSFP-DD modules, but this size increase allows for better heat dissipation and higher power envelopes (up to ~16 ...)



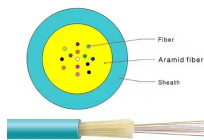
It is compliant with IEEE 802.3 800GBASE-VR8 and OSFP MSA module requirements with integrated heat sink. Optical signals are carried over eight pairs of parallel lanes, with one ...



The OSFP 1×N and 2×N RHS cage, featuring integrated top and bottom row cold plates with a belly-to-belly compatible screw-down mechanism, provides a simple and reliable installation ...



Designed for flexibility, it supports passive and active copper cables and optical modules. Multiple connector and heat sink options, MSA compliance, and RoHS/REACH certification position it ...



The Octal Small Form Factor Pluggable (OSFP) Connector System provides single- or dual-port, 8- or 16-lane I/O connectivity with DAC, AOC, ACC and optical modules for high-density switch applications.



TE Connectivity's (TE) Octal Small Form Factor Pluggable (OSFP) connectors, cages and cable assemblies address next-generation data center needs by supporting aggregate data rates of 200 ...



TE Connectivity's OSFP I/O Connectors include both SMT connectors and cage assemblies.

Contact Us

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