

RoHS Pluggable Optical Module OSFP



Overview

OSFP (Octal Small Form Factor Pluggable) is a pluggable optical transceiver interface standard that supports eight electrical lanes (Tx/Rx) per module. Each lane can operate up to 100G PAM4, allowing total bandwidths of 400G or 800G depending on configuration. This specification defines the electrical connectors, electrical signals and power supplies, mechanical and thermal requirements of the OSFP Module, connector and cage systems. The OSFP management interface is described in a separate document: "Common Management Interface. The Cisco ® OSFP 800G transceiver modules provide 800 Gigabit Ethernet (GE), 2x 400GE, 4x 200GE, and 8x 100GE connectivity options, complying with the Octal Small Form Factor Pluggable (OSFP) MSA for pluggable transceivers. The modules comply with the OSFP MSA configuration with integrated closed. While the industry-standard OSFP (Octal Small Form-Factor Pluggable) module has successfully enabled 400Gbps, 800Gbps, and 1.6Tbps optical pluggable modules, it is limited to 32 modules per Rack Unit (RU), typically requiring 2 RUs to achieve 102. Designed to support 28G NRZ, 56G PAM4, 112G PAM4, and 224G PAM4.



Article Content

Cisco OSFP 800G Transceiver Modules Data Sheet

The Cisco ® OSFP 800G transceiver modules provide 800 Gigabit Ethernet (GE), 2x 400GE,

Introduction to OSFP Optical Transceiver

Because it's faceplate pluggable and field replaceable, it has a single-receptacle electrical connector. One of the nontraditional

OSFP Connector Guide: 400G and 800G Modules,

OSFP optical modules include 400G SR8/DR8 and 800G DR8 /FR8 variants. They deliver

Understanding OSFP Modules: Your Guide to High-Speed Optical ...

OSFP (Octal Small Form-factor Pluggable) modules are becoming increasingly important in achieving high-speed

OSFP OCTAL SMALL FORM FACTOR PLUGGABLE MODULES

This specification defines the electrical connectors, electrical signals and power supplies, and mechanical and thermal requirements

OSFP Connectors & Cable Assemblies

TE's Octal Small Form Factor Pluggable (OSFP) connectors and cable assemblies support aggregate data

OSFP | High Speed Interconnects | Amphenol

The OSFP connector is a high-speed, 8-lane pluggable interface designed for 400G, 800G, and 1.6T systems.

Pluggable Optical Modules – GIGALIGHT

The optical amplifier module developed by GIGALIGHT is designed for long-distance transmission systems in digital optical fiber

XPO: Redefining Pluggable Optics for AI Networking

While the industry-standard OSFP (Octal Small Form-Factor Pluggable) module has successfully enabled 400Gbps, 800Gbps, and

Welcome to OSFPmsa

. Texas Instruments, TVL672x OSFP/OSFP-XD Module Low-Speed Signal Controller with ePPS Support . The Next Generation of

Understanding the Flat-Top OSFP Optical Transceiver: Compatibility ...

Explore the OSFP Flat Top Optical Transceiver's compatibility with 800G modules, direct attach cables, and its

OSFP (Octal Small Form Factor Pluggable) Copper Cable Assemblies

Our Electronics Products "Product of the Year" award-winning OSFP (Octal Small Form Factor Pluggable) cable assemblies are

Understanding the OSFP Standard: The Open 400G/800G Optical

OSFP (Octal Small Form Factor Pluggable) is a pluggable optical transceiver interface standard that supports eight

OSFP Optical Transceiver MSA Spec

Abstract: This specification defines the electrical connectors, electrical signals and power supplies, mechanical and thermal

OSFP OCTAL SMALL FORM FACTOR PLUGGABLE MODULE

OSFP Riding Heat Sink (OSFP-RHS) is a 9.5mm high pluggable module which does not have an integrated heat sink as shown in

1.6T OSFP 2xFR4 OP27PI8-02D Rev 1.0-IHS

OP27PI8-02D 1.6T OSFP 2xFR4 modules are designed for use in 1.6T Ethernet links on up to 2km of single mode fiber. Forward

FAQ about OSFP Octal Small Form Factor Pluggable?

Q: What is the OSFP (Octal Small Form Factor Pluggable)? A: The OSFP is a new pluggable form factor with eight high speed

Understanding Pluggable Optical Modules

A CXP optical module is a hot-pluggable high-density parallel optical module, which provides 12 channels of traffic in each of the Tx

Increasing Further Data Rates Using High-Current Power Converters

Introduction With the boom of AI servers spurring demand for higher data rates, OSFP (octal small-form-factor pluggable) modules

OSFP OCTAL SMALL FORM FACTOR PLUGGABLE MODULES

A Type 3 OSFP module provides a maximum of 3.6mm of additional height in the front compared to a Type 2 module. Type 2 and

OSFP OCTAL SMALL FORM FACTOR PLUGGABLE MODULE

7.7.2 MPO 12 Optical Interface Figure 52 shows channel orientation of the optical connector when a male MPO 12 connector as in

OSFP-XD, OCTAL SMALL FORM FACTOR eXtra Dense PLUGGABLE MODULE

Abstract: This specification defines the electrical connectors, electrical signals and power supplies, mechanical and thermal

1.6T OSFP Transceivers

Amphenol's 200G/lane optical modules support DR4, FR4, 2×DR4, 2×FR4, AOC, and breakout AOC configurations with LC or MPO

OSFP 400G Loopback Module

Description Designed and engineered to accommodate customers high usage 2000 cycles at -40°C to 85°C, the loopback module

Contact Us

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