

CE Certified Optical Modulator OSFP



Overview

The OSFP optical transceiver module is designed for 400GBASE Ethernet throughput up to 500m link lengths over OS2 singlemode fiber (SMF) using a wavelength of 1310nm via MTP/MPO-12 APC connectors. This transceiver is compliant with CMIS 5.3bs and OSFP MSA. 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 Specification for 8/16X. Cisco QSFP-DD and OSFP 800G ZR/ZR+ digital coherent optics modules enable 800G traffic over amplified Dense Wavelength-Division Multiplexing (DWDM) links up to 120 km for 800ZR and over 1000 km for 800G ZR+. Engineered for high-density and high-speed applications, this 800g osfp transceiver supports both Ethernet and. 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 800G OSFP optical modules include 2xDR4 (plus), 2xFR4 (plus), 2xLR4, AOC, and AOC breakout series, which adopt LC or MPO optical ports and are compatible with IEEE802.3, OIF-CMIS and other standards. Capable of transmitting 400 Gbps over 120 km, Lumentum OSFP 400ZR coherent.

Article Content

Jul 22, 2026

800G OSFP DR8/DR8+ Optical Transceiver

800G OSFP DR8/DR8+ Optical Transceiver Jabil 800Gb/s OSFP DR8/DR8+ (Data Center Reach 8-lane) Optical Transceiver is a small form-factor, high speed, and low power consumption product

Jul 24, 2026

800Gb/s OSFP Transceivers | Optical Interconnect

Amphenol's 800G OSFP optical modules include 2xDR4 (plus), 2xFR4 (plus), 2xLR4, AOC, and AOC breakout series, which adopt LC or MPO

Sep 27, 2025

FTRJ-8519-1 Specifications

Finisar's FTCE4527E1PxM DR8+ OSFP transceiver modules are designed for use in 800 Gigabit Ethernet links up to 2km of single mode fiber. They are compliant with the OSFP MSA, IEEE

Nov 27, 2025

Understanding the OSFP 400G DR4 Optical

Discover the OSFP 400G DR4 Optical Transceiver Module, a high-performance solution with a 1310nm wavelength, supporting 500m distance and

Jun 01, 2026

YYGL 400G OSFP SR8 PAM4 850nm 100m OM4 Single MPO

Operating Temperature: 0~70°C (32~158°F) Certification: RoHS, CE, Class 1 Laser Safety Compatible Brands: Cisco, Arista, Mellanox, Juniper, Dell

Feb 08, 2026

What Is an OSFP Module?

Discover the OSFP module: fast, scalable optical tech for modern networks. Find an OSFP module for sale and power up your connectivity!

Jul 09, 2026

OSFP1600_and_OSFP-XD

OSFP-XD can also support 8-lane optics modules that want to take advantage of thermal management capabilities and useable volume inside the module. An 8-lane OSFP-XD module (tentatively referred

Sep 17, 2025

Welcome to OSFPmsa

A: No, due to mechanical and electrical differences, OSFP modules are not compatible with OSFP-XD ports, and vice-versa. Mechanical keying features on

Sep 09, 2025

OSFP MSA Rev 5

Abstract: This specification defines the electrical connectors, electrical signals and power supplies, and mechanical and thermal requirements of the OSFP Module, connector, and cage systems. The

Jan 16, 2026

400G OSFP Transceiver Optics Types and Connections

The Octal Small Form Factor Pluggable (OSFP) module is an optical transceiver designed to provide high speed 400G/800G data communications for data centers and networking systems. A typical

Feb 07, 2026

OSFP MSA Rev 5.0

The OSFP module contains a PCB with contact pads (i.e., module PC board; paddle card) that mate with a connector as specified in Section 5.10 of this document. Critical dimensions for the contact

May 14, 2026

1.6T OSFP 2xDR4/DR8, 1310nm, 500m, DDM, CDR,

1.6T OSFP 2xDR4/DR8, 1310nm, 500m, DDM, CDR, Dual MPO/APC 12F, Single-Mode, Optical Transceiver Module quantity

Feb 11, 2026

Understanding the OSFP-XD Connector: The Ultimate

Gain a comprehensive understanding of the OSFP-XD connector, optical transceiver modules, and high-speed cables. Learn how Amphenol leads

Aug 22, 2025

1.6T DR8/DR8+/2xDR4/2xDR4+ OSFP PAM4 Optical Transceiver

Optical Transceiver Jabil 1.6T DR8/DR8+/2xDR4/DR4+ (Data Center Reach 8-lane) OSFP PAM4 Optical Transceiver is a small form-factor, high speed, and low power consumption product targeted

Apr 25, 2026

400G ZR/ZR+ OSFP-DCO

The Lumentum 400ZR module on an OSFP form factor is designed for use by hyperscale data center operators and peering networks to provide high

Sep 23, 2025

Cisco QSFP-DD and OSFP 800G ZR/ZR+ Coherent

Cisco QSFP-DD and OSFP 800G coherent optical modules are supported on Cisco switches and routers. For more details, refer to the Cisco

Feb 19, 2026

Fujitsu Optical Components Limited

Fujitsu Optical Components Limited Fujitsu Optical Components joins other Optical Internetworking Forum (OIF) members which includes system vendors, component vendors and test equipment

Jul 03, 2026

OSFP OCTAL SMALL FORM FACTOR PLUGGABLE MODULE

Below sub-sections illustrate block diagrams for a sampling of optical physical medium dependent sublayers (PMDs) that can be realized in an OSFP form factor. These block diagrams are meant to

Aug 27, 2025

OSFP MSA targets 400-Gbps optical transceiver module

The OSFP MSA will seek to develop specifications for an optical transceiver capable of supporting transmission rates up to 400 Gbps (8x50G initially) in a size that will enable 32 ports per 1RU ...

Aug 09, 2025

Optical Transceivers Accelink | Lighting Your Dreams

Accelink | Lighting Your Dreams RTXM700-502 is designed to transmit and receive serial optical data links up to 212.5 Gbps data rate (per channel) by PAM4 modulation format over single-mode fiber. It

Apr 29, 2026

Understanding OSFP MSA: The Future of Optical

In this world of rapidly changing data communication, there is an increasing need for optical transceivers that work at high speed and are efficient.

Dec 05, 2025

EMI Qualification of QSFP & OSFP Electrical/Optical Modules

Abstract The multitude of Electrical/Optical interfaces, such as QSFP or OSFP modules, lead to the accumulation of EMI in larger Switches and Routers. Levels far above the level of an individual

Oct 06, 2025

400G OSFP VR4 Optical Transceiver Module — High Speed Low

This Optical Transceiver Module complies with OSFP MSA, IEEE P802.3db/D3.0, IEEE P802.3ck, and CMIS Rev 5.0. It uses PAM4 modulation with 4x100G electrical and optical lanes, ensuring high

Oct 07, 2025

Customized 400GBASE-DR4 OSFP Finned Top PAM4 1310nm 500m

The OSFP optical transceiver module is designed for 400GBASE Ethernet throughput up to 500m link lengths over OS2 singlemode fiber (SMF) using a wavelength of 1310nm via MTP/MPO-12 APC

Jul 31, 2025

OSFP-XD, OCTAL SMALL FORM FACTOR eXtra Dense

Abstract: This specification defines the electrical connectors, electrical signals and power supplies, mechanical and thermal requirements of the OSFP-XD Module, connector and cage systems. The

Dec 03, 2025

Quality Certifications for Optical Transceivers

Quality certifications like ISO 9001:2015, RoHS, and FCC ensure optical transceivers meet strict standards for reliability, compliance, and

Jan 26, 2026

SFP vs QSFP vs OSFP: Choosing the Right Transceiver for Your

While initial costs for QSFP and OSFP transceivers are higher, their long-term benefits in terms of performance and scalability can outweigh these costs. Conclusion Understanding the

Jun 13, 2026

FTRJ-8519-1 Specifications

VII. Regulatory Compliance Finisar FTCE4527E1PxM DR8+ OSFP transceivers are Class 1 Laser Products. They are certified per the following standards: ... Copies of the referenced certificates are

Jul 06, 2026

OSFP Connector System

OSFP connectors are slightly larger than QSFP-DD connectors but offer increased thermal performance and signal integrity at high data rates. The OSFP system

Contact Us

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