

ODM Optical Transceiver 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. As data center bandwidth demands skyrocket, Fibrecross delivers industry-leading 400G optical transceiver modules—engineered for ultra-low latency, minimal power consumption, and rock-solid reliability. Operating with an eight-lane electrical interface where each lane delivers 50Gbps via PAM4 (Pulse. 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. The OSFP form factor has emerged as the leading solution for next-generation deployments, but timing the transition matters. This guide gives you the complete picture. Within the first few centimeters of its optical engine, the TS-OP-318H-01C.



Article Content

Dec 24, 2025

Custom 400G Optical Transceivers Module | OEM/ODM

Supports QSFP-DD, OSFP, CFP8 ports across top-tier switches and routers. Tailored laser wavelengths, connector types, digital diagnostics, and firmware

Apr 29, 2026

1.6T / 800G OSFP224 Optical Transceivers for NVIDIA AI Data

What Is OSFP224? OSFP224 is an advanced OSFP-based optical module architecture designed for 224G-class electrical signaling. In practical high-speed networking applications,

Jun 03, 2026

SFP Module 10G SFP Optical Transceiver GPON PON Fiber Copper

Key attributes Type SFP Module Use FTTX Network Wireless Lan, 5G, Bluetooth, Wired LAN Model Number SFP 1.25G Brand Name Unionfiber Place of Origin Guangdong, China Warranty Time 3

Sep 27, 2025

25G BiDi SFP28 80KM Optical Transceiver | FiberMania

Perfectly designed for 25g bidi sfp28 optical transceiver 1270/1330nm 80km single-mode fiber LC for switch, router, and server optical connections.

Mar 30, 2026

Kyocera Develops Pluggable Optoelectronic Module

Kyocera Corporation (President: Hideo Tanimoto, hereinafter "Kyocera") is pleased to announce the development of a pluggable optoelectronic

Mar 09, 2026

Next-Generation Connectivity: The Rise of 800G OSFP 2*FR4 Optical ...

1. Summary The 800G OSFP 2*FR4 optical transceiver represents a pivotal shift in high-density networking, providing the necessary bandwidth to support the explosive growth of artificial

Feb 20, 2026

A Comprehensive Guide to 400G OSFP Ethernet

Comprehensive Product Portfolio In addition to 400G OSFP Ethernet transceivers, NADDOD offers a full range of 1.6T, 800G, 400G, 200G, and 100G

Jan 11, 2026

SFP Transceiver,100G QSFP28,100G CFP,10G

Topstar -- Your Excellent One-stop Optical Network Transceiver Manufacturer in the World Topstar is a leading optical modules manufacturer and optical solutions

Apr 21, 2026

A Comprehensive Guide to 400G OSFP Ethernet

Explore 400G OSFP Ethernet optical transceivers for modern data centers, AI and HPC networks. Learn OSFP advantages, use cases, and

Jun 25, 2026

OSFP OCTAL SMALL FORM FACTOR PLUGGABLE MODULE

The OSFP module shall operate within one or more of the case temperature ranges defined in Table 8-1. The temperature ranges are applicable between 60m below sea level and 1800m above sea level.

Jul 06, 2025

OSFP Transceivers: High-Density Optical Connectivity from 400G to

As hyperscale data centers shift toward AI-optimized fabrics and ultra-high-bandwidth switching platforms, the OSFP (Octal Small Form-Factor Pluggable) form factor has become central

Oct 03, 2025

400G OSFP Transceivers | High-Power Optical Modules

The 400G OSFP (Octal Small Form-factor Pluggable) transceiver is a high-performance optical module engineered to support the rigorous bandwidth demands of next-generation 400 Gigabit Ethernet.

Mar 03, 2026

China Optical Transceiver Module & Mellanox Network

40GbE DDMI Mellanox Optical Transceiver QSFP+ 850nm MMA1B00-B150D MPO SR4 up to 150m ConnectX-5 Ex EN Mellanox Network Adapter Card MCX516A

Feb 16, 2026

1.6T OSFP Transceivers | Optical Transceivers | Amphenol

HIGH-SPEED OSFP TRANSCEIVER FOR 800G/1.6T WITH 200G PER LANE Amphenol's 200G/lane optical modules support DR4, FR4, 2×DR4,

Sep 11, 2025

SFP+, XFP, QSFP+, DAC Twinax Cable 10Gtek Transceivers Co., Ltd

DAC Twinax Cable Maker. CE, FCC, RoHS, ISO9001 Certified. Professional Manufacturer focusing on SFP+ Cables, QSFP+ Cables, MiniSAS Cables, QSFP Cables, XFP Cables, CX4 Infiniband Cables

Sep 14, 2025

OSFP1600_and_OSFP-XD

To accommodate both high-power optical and dense copper solutions, the specification will define separate but compatible heatsink specifications for both optical and copper modules, allowing

Jun 24, 2026

Top 5 OEM/ODM Optical Transceiver Factories In China For Private ...

Looking for OEM/ODM optical transceiver factories in China? We rank the top 5 factories (InnoLight, Accelink, Wolontek) based on quality, pricing, and suitability for private labeling.

Aug 02, 2025

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 electrical lanes (Tx/Rx) per module. Each lane can operate up to 100G

Apr 25, 2026

OFC 2025: Eoptolink launches 1.6T OSFP 2VR4 transceivers

At OFC 2025 in San Francisco, Eoptolink is launching its 1.6T OSFP 2VR4 optical transceiver. VCSEL lasers operating at 106Gbps are incorporated in many of today's short reach

Apr 17, 2026

sfp module supplier

In the race to 400G, 800G, and beyond, the physical form factor of your transceiver matters just as much as the speed. You are likely facing a alphabet soup of acronyms: OSFP vs QSFP-DD vs SFP-DD.

Jun 19, 2026

Optical Transceiver Market Size, Share, Industry Report

Optical Transceiver Market Size The global optical transceiver market was valued at USD 13.4 billion in 2025. The market is expected to grow from USD 15.4 billion in

Aug 24, 2025

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

The MJ-OSFP1.6TB-DR8 is a cost-effective, high-performance OSFP module tailored for AI datacenter applications, delivering an aggregate throughput of 1.6

Mar 13, 2026

2.5Gbps SFP Optical Transceiver 1310nm 10KM DDM Function

3 years Port SFP Frequency Range 1310NM Operating wavelength 1310nm
singlemode OEM, ODM services yes Connector Duplex LC connector Transmission
Distance 10km Data Rate 2.5Gbps

Sep 15, 2025

Complete Guide to OSFP Transceiver: 400G/800G/1.6T

The OSFP standard creates a high-speed optical transceiver form factor that enables data transmission at 400G, 800G, and 1.6T speeds. The

Nov 22, 2025

Optical Transceivers / SFP Modules – High-Performance Compatible

Comprehensive Optical Transceivers & SFP Module for High-Speed Networks LINK-PP offers a full range of optical transceivers and SFP module for modern data centers, telecom networks, and

Oct 26, 2025

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.

Apr 26, 2026

AOC, DAC, Fiber Optic Transceivers | One-Stop Shop

800G/400G OSFP-DD Transceivers 400G/200G Transceivers 100G/40G Transceivers
25G/10G/1.25G Transceivers 100G/25G DAC SAS NIC

Contact Us

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