

# Large connector optical module



## Overview

Leveraging LPO technology, the module provides ultra-low-latency, power-efficient optical links tailored for AI, high-performance computing, and hyperscale data center applications. Innovative expanded beam connector options integrate 12, 16 or 144 fibers into a single connector. 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 102.8Tbps of switching. F5 only provides support for F5-branded or F5-provided copper transceiver and/or optical transceiver modules. The below transceiver specifications are subject to change without notification. Targeting high-reliability interconnects where high data rate communication links, low size, weight, and power (SWaP) as well as radiation resistance performance are required. Suitable for harsh environments and designed for demanding applications where reliability and high performance are required, our NADDOD provides high-performance 800G OSFP LPO optical module, which are very suitable for AIDC deployments.



## Article Content

Hot

### The Most Comprehensive Guide Of Optical Modules

Explore the ultimate guide to optical modules. Learn types, functions, performance metrics & how to choose the right module for your fiber network.

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### Optics and High Speed IO Solution | Transceivers

Leveraging LPO technology, the module provides ultra-low-latency, power-efficient optical links tailored for AI, high-performance computing, and

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### How Optical Transceivers Power the Era of Big Data

Optical transceivers convert electrical signals into optical signals and vice versa, enabling data to travel over fiber optic cables with minimal loss. This

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### XG-SFP-LR-SM1310 10GBASE-LR SFP+ 1310-nm 10-km DOM

The XG-SFP-LR-SM1310 is aligned to IEEE 10GBASE-LR optical specifications and supports a link length of up to 10 kilometers over a single-mode fiber (SMF) with an LC connector. It adopts the

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### Optical module

Optical modules can either plug into a front panel socket or an on-board socket. Sometimes the optical module is replaced by an electrical interface module that implements either an active or passive

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### Transceiver Modules

The module accepts eight host electrical data and transmits them into two groups of optical bi-directional lanes (each group contains 4 pairs of optical

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### 100G QSFP28 Optical Module Selection Guide: Medium to Long

How to Choose 100G QSFP28 Optical Module When you consider choosing a 100G QSFP28 module, you first need to consider your transmission distance. When your transmission

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Optical Solutions

Optical Flex Circuits FlexPlane Optical Flex Circuits provide versatile, high-density routing on a flexible substrate, and Routed Ribbon Solutions offer cable

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Cisco Optics | Transform Your Network

Get the highest quality, performance-leading optical transceivers for any network architecture. Find the transceiver model to fit your network.

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SFP Modules: The Key to Efficient Fiber Optic Connectivity

Explore the world of SFP modules - the compact, flexible, and high-speed solution for data transmission in fiber optic networks.

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Expanded Beam Optical Connectors | Sumitomo Electric

Explore Relevant Content Introducing dense and precise fiber optic connectivity based on experience of manufacturing both fiber optic cables and connectors. It

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Ultimate Guide to SFP+ Transceiver Modules Updated

Learn all about the latest updates for SFP+ transceiver modules in this ultimate guide. Stay informed with the most up-to-date information in 2024.

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Optical Modules in General-Purpose Computing Scenarios

Huawei offers a comprehensive portfolio of pluggable StarryLink optical modules for data center networks, with various models providing flexible plug-and-play solutions tailored to diverse interface

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Different Types of Optical Connectors | Inneos

Optical connectors are the physical interface that links an optical device to a fiber optic cable. Fiber optics are used in many applications, including

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### The Evolution of Optical Modules: Powering the Future

Enter optical modules, which leverage the power of light to transmit data efficiently over long distances, driving the next generation of technological

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### What Is an Optical Module and Its FAQs (V200)

What Is an Optical Module and Its FAQs (V200) Describes what an optical module is and FAQs, including the fundamentals, appearance and structure, key performance counters, common types,

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### Optical fiber connector

Optical fiber connectors are categorized into single-mode and multimode types based on their distinct characteristics. Industry standards ensure compatibility

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### Optical Connectors & Fiber Optics Connectors | Radiall

Suitable for harsh environments and designed for demanding applications where reliability and high performance are required, our cost-effective optical connectors

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### Optical Connectors & Fiber Optics Connectors | Radiall

Radiall's full range of optical interconnect solutions includes standard interfaces, optical termini, optical connectors and custom optical assemblies and

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### Multi-fiber Push On (MPO) Connectors

Multi-fiber push on connectors, or MPOs, are fiber cable connectors comprised of multiple optical fibers. Learn more at Fluke Networks.

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### VersaBeam Expanded Beam Connectors and Cables

VersaBeam EBO Backplane Connectors consolidate 192 fibers into a compact, high-density interface, ideal for optical backplane and midplane connections. Blind

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### XPO: Redefining Pluggable Optics for AI Networking

High Reliability In large-scale AI fabrics comprising tens of thousands of optical links, component failures become statistically inevitable. However, the hard and soft failure rates of today's optical modules

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LC Vs SC Vs FC Vs MPO Fiber Optic Connectors:

Compare LC, SC, FC, ST, MPO & MTP fiber optic connectors with expert insights. Learn which connector fits your data center or enterprise network

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Optical Transceivers

Embedded transceivers and transceiver modules with Reflex Photonics technology for advanced interconnect based solutions. Targeting high-reliability interconnects

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Optical Transceivers & RJ45 Connectors Manufacturer | LINK-PP

Founded in 1997, LINK-PP is a global manufacturer of optical transceivers and Ethernet connectors for data centers, telecom and industrial networks. OEM/ODM supplier with large-scale production capacity.

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Optical Interconnect Technology Analysis: LPO, NPO, CPO

NPO, or Near-Packaged Optics, is a highly integrated optical interconnect solution that falls between traditional pluggable optical modules and

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Fiber Optic Connectors and Adapters

As a leading supplier of advanced fiber optic components, Molex has an extensive product offering that includes a full range of optical solutions from connectors,

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Types of Optical Fiber Connectors Often Used

SC type fiber optic connector The large square head joint is the SC type joint, and its outer casing is rectangular, and the structural dimensions of the pins and coupling sleeves used are

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Top Optical Transceiver Modules for Data Center Applications

Introduction: Why Optical Modules Are Critical to Data Center Infrastructure In today's cloud-first, AI-driven, and 5G-enabled landscape, optical transceiver modules play a pivotal role in

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How to choose an optical fiber link and an SFP module?

If your cable and SFP module have different connectors, then you can use an adapter. One should not forget, that there exist SFP modules not only for optical

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## Contact Us

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