

## Article Overview

The Huawei QSFP-DD 400G SR8 is a high-performance multimode optical transceiver designed for 400Gbps Ethernet over short-reach multimode fiber, supporting distances up to 100 meters on OM4 fiber.

## Key Specifications

- o Form Factor: QSFP-DD (Quad Small Form Factor Pluggable Double Density), enabling high port density in data center switches and routers .
- o Data Rate: 400Gbps, supporting high-speed data transmission for modern networking applications .
- o Interface Type: 400GBASE-SR8, an 8-lane short-reach multimode fiber interface .
- o Wavelength: 850nm, standard for multimode fiber applications, ensuring efficient short-distance transmission .
- o Reach: Up to 100 meters on OM4 multimode fiber and 70 meters on OM3 multimode fiber, suitable for intra-data center connections .
- o Connector Type: MPO 1x16, allowing multiple fibers to be connected in a compact form factor .
- o Connector Finish: APC (Angled Physical Contact), which reduces back reflection and improves signal integrity .
- o Modulation Format: 4-level Pulse Amplitude Modulation (PAM4), enabling higher data throughput over parallel fiber lanes .
- o Standards Compliance: QSFP-DD MSA, IEEE 802.3cm 400GBASE-SR8, and IEEE 802.3bs 400GAUI-8, ensuring interoperability with other compliant devices .
- o Digital Diagnostics: Available via I2C interface, allowing real-time monitoring of module parameters such as temperature, voltage, and optical power .

## Applications

The Huawei QSFP-DD 400G SR8 multimode module is primarily used in:

- o Data Centers: For high-density, short-reach interconnections between switches, servers, and storage systems.
- o High-Speed Networking: Supporting 400GbE links in AI, cloud computing, and enterprise network environments.
- o Parallel Optical Links: Utilizing 8 fiber pairs to achieve 400Gbps throughput efficiently over multimode fiber .

## Advantages

- o High Port Density: QSFP-DD form factor allows more ports per switch, saving rack space.
- o Short-Reach Optimization: Ideal for intra-rack and inter-rack connections within data centers.



# Huawei 400G Multimode Optical Module

o Reliable Signal Integrity: APC connectors and PAM4 modulation reduce errors and improve performance.  
o Plug-and-Play: Compact and cost-effective solution for rapid deployment in modern network infrastructures . The Huawei QSFP-DD 400G SR8 multimode optical module provides a robust, high-speed, and space-efficient solution for short-reach 400G Ethernet applications, making it a key component in next-generation data center networks.

This 400G QSFP-DD SR4 optical module has great compatibility and pairs

Operating at 850 nm with an MPO-16 connector, it supports parallel optical transmission in high-density environments, ideal for data

CFP MPO24 Connector Model CFP-100G-SR10 Description High Speed Transceiver,CFP,100G,Multimode

10 Gbit/s SFP+ Optical Module You can use different levels of 10 Gbit/s SFP+ optical modules only with 10 GE

Check Huawei QSFP-DD-400G-SR8 product detail and price trend at itprice .

Huawei OSFP-400G-SR8-W Optical Module Datasheet Huawei White Label OSFP-800G-SR8-W Optical Module Datasheet

This document provides an overall description of the CE12800 series switches hardware, helping you obtain detailed information

The StarryLink optical module is a core component developed by Huawei for data center networks. It delivers ultra

With the advent of 400G, optical communication is entering a new era, moving from single-carrier modulation in low

Important Notes About Using Optical Modules Certified for Huawei Switches Understanding Optical Modules Understanding Copper

400GBASE-SR8 QSFP-DD is a parallel 400GE Quad Small Form Factor Pluggable Double Density (QSFP-DD) SR8 optical module

For example, an OMXD30000 multimode optical module supports a maximum transmission distance of 400 m, but the actual



# Huawei 400G Multimode Optical Module

This document provides an overall description of the CE16800 series switches hardware that V300R020C00 and later versions,

Comprehensive guide to Huawei's 40GE QSFP optical modules for enhanced network connectivity and performance.

Home Huawei QSFP-DD-400G-SR8-D Optical Module Datasheet

These compact optical transceivers. offer a convenient and cost-effective solution for short reach interconnections in the data center.

Web: <https://www.in-au.co.za>

