

SWDM4 optical module



Overview

The 100 Gb QSFP28 SWDM4 (Short-wave, wave division multiplexed 4-lane) transceiver supports up to 100 meter connections on OM3 and OM4 multimode fiber using duplex fiber. For a complete listing of hardware compatible with these modules, see the Extreme Optics Compatibility website. Enter the 40/100G SWDM4 module, a game-changing solution that combines dual-rate compatibility with the efficiency of Short Wavelength Division Multiplexing (SWDM) technology. This compact yet powerful module offers a wealth of benefits, from increased bandwidth capacity to cost-effective. Continuing our discussion on 100G optical modules, let's explore the essential 100G transmission standards—SR4, DR1, DR4, BiDi SR, LR4, CWDM4, SWDM4, ER, and ZR. These standards often cause confusion when selecting the right module for your needs. But don't worry! By the end of this guide, we'll. to use the QSFP28 module form factor. It is commonly deployed in data centers and enterprise cores where upgrading to 100G is required but replacing LC-based. Understanding the differences between SR4, LR4, CWDM4, SWDM4, BiDi, and Single Lambda modules is crucial for network architects aiming to balance performance, reach, and cost. This guide provides a comprehensive breakdown of 100G QSFP28 transceiver types, highlighting their key technical. SWDM4 (Shortwave Wavelength Division Multiplexing) transceivers are a new class of technology within the optical communication domain that is shaped by the need to support higher data transfer rates over the installed multimode fiber. In light of their capabilities and benefits, this handbook seeks.

Article Content

Sep 04, 2025

Unlocking the Potential of SWDM4 Transceivers: A Comprehensive

Optical communications employ SWDM4 and SR4 modules; however, they exhibit significant differences that serve the requirements of a particular network design as well as the

Nov 25, 2025

What is SWDM for Multimode Fiber Solutions

What is SWDM? SWDM is a fiber technology using four short wavelengths to boost data rates and efficiency in multimode fiber networks.

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What Is SWDM4 and 40G SWDM4 Transceiver?

40G SWDM4 module refers to a specific type of optical transceiver module designed to support 40 Gigabit Ethernet (40G) transmission using

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QSFP28 SWDM4 100GbE MMF LC Universal Optical Transceiver

The 100G QSFP28 SWDM4 optical transceiver transmits data over multi mode fibre at a distance of up to 100m. The transceiver operates on 4 wavelengths and works in point-to-point scenario.

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Selecting the Perfect 100G Optical Module Packaging:

100G optical module have emerged as essential components in the fast-paced world of data centers and network communications,. With a plethora of

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100GSWDM4QSFP100MC Datasheet | Atgbics

QSFP28 form factor 100GBase-SWDM4 optical transceiver delivers 103.1 Gbps aggregate data rate over duplex multimode fibre using four VCSEL-based lanes at wavelengths from 850 to 940 nm. The

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100 Gb SWDM4 QSFP28 Module

To determine achievable distances, refer to the device's optical specifications and to the specific characteristics of your fiber installation. The following table lists specifications for the SWDM4

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Hunan Zhaoyong Communication Technology

Hunan Zhaoyong Communication Technology Co., Ltd. specializes in branded optical transceiver modules from top manufacturers like Cisco, Huawei, Nokia and HPE, etc, including CFP, SFP, and

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QSFP28 100G SWDM4 Transceiver Explained for

Enter the QSFP28 100G SWDM4 optical transceiver – a brilliant solution engineered for cost efficiency and maximizing existing fiber plant. A 100G

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SWDM Basics: A Beginner's Guide

100G SWDM4 QSFP28 Optics The 100G SWDM4 QSFP28 optics are different from the typical 100GBASE-SR4 MPO QSFP28 transceiver, which is based on the SWDM4 technology and

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Arista Optics Modules and Cables

Each module is optimized for different media and reach (ranging from 0.5 meters to 80 kilometers). All interface speeds, from 1G to 400GE have connectivity options that include Direct Attach copper

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Unlocking the Potential of SWDM4 Transceivers: A Comprehensive

SWDM4 (Shortwave Wavelength Division Multiplexing) transceivers are a new class of technology within the optical communication domain that is shaped by the need to support higher

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AddOn Networks FN-TRAN-QSFP+SR-SWDM4-AO network transceiver module ...

This Fortinet FN-TRAN-QSFP+SR-SWDM4 compatible QSFP+ transceiver provides 40GBase-SWDM4 throughput up to 350m over multi-mode fiber (MMF) using a wavelength of 850nm via an LC

Aug 26, 2025

100G Optical Module: How to Choose Between SR4, DR4, FR4, LR4,

Continuing our discussion on 100G optical modules, let's explore the essential 100G transmission standards—SR4, DR1, DR4, BiDi SR, LR4, CWDM4, SWDM4, ER, and ZR. These

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Demystifying 100G QSFP28 Optical Transceivers: SR4, LR4,

Whether you are designing high-density cloud infrastructure, scaling an enterprise backbone, or building next-generation AI clusters, this article will help you demystify 100G QSFP28

Aug 02, 2025

100G SWDM4 MSA Technical Specifications

able plug on the fiber optic cabling. For 100G-SWDM4 when the MDI is a connector plug and receptacle connection, it shall meet the interface performance specificat

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Custom 100G QSFP28 SWDM4 & LX4 Module | Duplex LC

Facility managers facing restrictive cabling conduits deploy SWDM4 and LX4 modules to circumvent parallel fiber requirements. Standard 100G multimode optics (SR4) mandate 8-core MPO trunks. The

Mar 30, 2026

100G SWDM4 Transceiver Guide: Specs, Uses, and Benefits

SWDM4 modules integrate internal multiplexers and demultiplexers to combine and separate the four optical channels, allowing a single fiber pair to carry the full 100Gbps data stream.

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FS 40/100G QSFP28 SWDM4 Optical Transceiver

The FS 40/100G SWDM4 dual-rate module is a specialized type of optical transceiver module designed to support both 40 Gigabit Ethernet

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100G SWDM4 QSFP28 150m | 4 Wavelength MMF

Our EDGEOPTIC SWDM4-100G-QSFP28-150 is a multi-vendor compatible 100G SWDM4 QSFP28 optical module designed for 100 Gigabit Ethernet applications

Nov 12, 2025

100G SWDM4 MSA Technical Specifications

100G-SWDM4 PMD is defined in Table 2-2. An SWDM4 compliant PMD operates on 50/125 um multimode fibers, type A1a.2 (OM3), type A1a.3 (OM4), or type A1a.4 (OM5), according to

Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://piano-lessons.co.za>

Email: info@piano-lessons.co.za

Phone: +31 6 37258914

Address: Herengracht 123, 1015 BT Amsterdam, Netherlands

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