100G QSFP28 Optical Transceiver Module, Multi-Mode 100 m

100GBASE-SR4 (MPO) Multimode Port (MMF), 100 m (328 ft.), Wavelength 850 nm, Cisco Compatible, MSA-compliant for Maximum Compatibility

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QSFP28 100G MMF Optical Transceiver for Short-Range Multimode Fiber Networks - Compatible with Cisco and MSA

The 100G QSFP28 Optical Transceiver Module from Intellinet Network Solutions is designed to deliver reliable high-speed connectivity for modern enterprise, datacenter, and cloud network environments. Supporting the IEEE 802.3ba 100GBASE-SR4 Ethernet standard, it enables data transfer rates up to 100 Gbps over multimode fiber connections with transmission distances of up to 100 m (328 ft.) using OM4 fiber. Its compact QSFP28 form factor makes it ideal for high-density network infrastructures requiring scalable and efficient 100G connectivity.

Optimized for High-Speed 100G Datacenter Connectivity

Featuring one MPO multimode fiber port and operating at a wavelength of 850 nm, the transceiver is engineered for stable short-range optical communication in high-bandwidth networking environments. The SR4 design uses four parallel optical lanes to support ultra-fast data transmission over multimode fiber, making it ideal for backbone, aggregation, and switch-to-switch connectivity in datacenters, server rooms, and cloud computing infrastructures.

Broad Compatibility with Leading Network Platforms

The module is MSA-compliant to ensure seamless interoperability with a wide range of switches, routers, and networking equipment from leading manufacturers including Cisco, Intellinet Network Solutions, ZyXEL, TP-Link, Ubiquiti, and more. Equivalent to the Cisco QSFP-100G-SR4-S transceiver model, it provides a reliable and cost-effective solution for expanding or upgrading existing 100G network deployments while maintaining compatibility with established hardware ecosystems.

Advanced Monitoring and Reliable Operation with DDM / DOM

Integrated digital diagnostics monitoring (DDM) and digital optical monitoring (DOM) functions provide real-time access to critical operating parameters such as temperature, voltage, and optical signal levels. This allows administrators to monitor transceiver performance and simplify network maintenance and troubleshooting in demanding enterprise and datacenter environments.

Durable Design for Enterprise and Datacenter Environments

A fully metallic housing minimizes electromagnetic interference (EMI) and enhances durability for stable operation in high-performance networking applications. Hot-plug support allows the transceiver to be installed or replaced without shutting down connected equipment, reducing maintenance downtime and improving service continuity in mission-critical network infrastructures.

Features:

- Supports IEEE 802.3ba 100GBASE-SR4 Ethernet with data rates up to 100 Gbps
- One MPO multimode fiber port
- MSA-compliant for compatibility with leading switch manufacturers such as Cisco, Intellinet Network Solutions, ZyXEL, TP-Link, Ubiquiti and more (see specifications)
- Supports fiber transmission distances up to 100 m (328 ft.) over OM4 multimode fiber and 70 m (230 ft.) over OM3 multimode fiber
- Wavelength: 850 nm
- Equivalent to Cisco transceiver model QSFP-100G-SR4-S
- Supports digital diagnostics monitoring (DDM) / digital optical monitoring (DOM)
- Low EMI due to fully metallic housing
- Suitable for high operating temperatures up to 70°C (158°F)
- Supports hot-plugging
- Ideal for enterprise, datacenter, and cloud network deployments including high-density backbone and aggregation networks
- Fully NDAA-compliant
- Three-year warranty

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Specifications:

Standards and Certifications
• CE
• UKCA
• FCC
• RoHS
• REACH
• NDAA
• IEEE 802.3ba
• SFF-8636
• MSA
• CAUI-4

General
• Form factor: QSFP28
• Max. data rate: 103.125 Gbps (4 × 25.78 Gbps)
• Wavelength: 850 nm
• Max. transmission distance: 100 m (328 ft.) over OM4 MMF / 70 m (230 ft.) over OM3 MMF
• Connector: MPO
• Media: MMF
• Transmitter type: 4 × 850 nm VCSEL
• Receiver type: PIN
• TX power: -8.4 to 2.4 dBm
• Minimum receiver power: -10.3 dBm
• Power budget: 2.1 dB
• Receiver overload: 2.4 dBm
• Power consumption: 3.5 W (max.)
• Power requirement: 3.3 V
• Extinction ratio: >3 dB
• DDM/DOM: supported
• Modulation (electrical): 4 × 25G NRZ
• Modulation (optical): 4 × 25G NRZ
• CDR (Clock and Data Recovery): TX & RX Built-in CDR
• Bit Error Ratio (BER): 5E-5

Compatible Brands
• Cisco, Intellinet Network Solutions, ZyXEL, TP-Link, Ubiquiti, D-Link, Edimax, Allnet, Allied Telesis, Digitus, KTI Networks, LevelOne, PLANET, Tenda, TRENDnet, ZTE, Avaya, Mikrotik, Enterasys, Finisar, Dell Force10, Riverstone, Fortinet and more

Physical
• Dimensions (L x W x H): 72 x 18 x 14 mm (2.83 x 0.71 x 0.47 in.)
• Net weight: 40 g (1.41 oz.)
• Gross weight: 56 g (1.98 oz.)

Environmental
• Operating temperature: 0 to 70°C (32 - 158°F)
• Operating humidity: 0 to 85% RH, non-condensing
• Storage temperature: -40 to 85°C (-40 to 185°F)

Package Contents
• 100G QSFP28 Optical Transceiver Module

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