



25G SFP28 Optical Transceiver Module, Multi-Mode 100 m

25GBASE-SR (LC) Multimode Port (MMF), 100 m (328 ft.), Wavelength 850 nm, Cisco Compatible, MSA-compliant for Maximum Compatibility

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SFP28 25G MMF Optical Transceiver for Short-Range Multimode Fiber Networks - Compatible with Cisco and MSA

The 25G SFP28 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 802.3by 25GBASE-SR Ethernet standard, it enables data transfer rates up to 25 Gbps over multimode fiber connections with transmission distances of up to 100 m (328 ft.) using OM4 fiber and 70 m (230 ft.) using OM3 fiber. Its compact SFP28 form factor makes it ideal for high-density network infrastructures requiring scalable and efficient 25G connectivity.

Optimized for High-Speed 25G Datacenter Connectivity

Featuring one LC duplex 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 SR design uses advanced VCSEL technology to support high-speed data transmission over multimode fiber, making it ideal for aggregation, server connectivity, and switch-to-switch applications 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 SFP-25G-SR-S transceiver model, it provides a reliable and cost-effective solution for expanding or upgrading existing 25G 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 802.3by 25GBASE-SR Ethernet with data rates up to 25 Gbps
- One LC duplex 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 SFP-25G-SR-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 aggregation and server connectivity applications

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- Fully NDAA-compliant
- Three-year warranty

Specifications:

Standards and Certifications

- CE
- UKCA
- FCC
- RoHS
- REACH
- NDAA
- IEEE 802.3by
- SFF-8431
- SFF-8432
- MSA

General

- Form factor: SFP28
- Max. data rate: 25.78 Gbps
- Wavelength: 850 nm
- Max. transmission distance: 100 m (328 ft.) over OM4 MMF / 70 m (230 ft.) over OM3 MMF
- Connector: duplex LC
- Media: MMF
- Transmitter type: 850 nm VCSEL
- Receiver type: GaAs PIN PD
- TX power: -5 to 2.4 dBm
- Minimum receiver power: -10 dBm
- Power budget: 5 dB
- Receiver overload: 2.4 dBm
- Power consumption: 1 W (max.)
- Power requirement: 3.3 V
- Extinction ratio: >3 dB
- DDM/DOM: supported
- Modulation (electrical): 25G NRZ
- Modulation (optical): 25G NRZ
- CDR (Clock and Data Recovery): TX & RX Built-in CDR
- Bit Error Ratio (BER): 1E-12

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): 57 x 13.9 x 8.5 mm (2.24 x 0.55 x 0.33 in.)
- Net weight: 20 g (0.7 oz.)
- Gross weight: 45 g (1.59 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

- 25G SFP28 Optical Transceiver Module





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