



SFP-25G-SR-S DataSheet

Cisco SFP-25G-SR-S is a 25G SFP28 SR optical transceiver supporting up to 100m over OM4 MMF. Ideal for short-range data center connections. Compatible with Cisco switches and routers. Low power, RS-FEC required.

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SFP-25G-SR-S Description



SFP-25G-SR-S is a high-performance 25GBASE-SR SFP28 optical transceiver module designed for short-range data center and high-performance networking applications. This Cisco SFP28 SR transceiver supports 25Gbps Ethernet over multimode fiber (MMF), reaching distances of up to 70 meters on OM3 and 100 meters on OM4 cabling. Featuring a standard LC duplex connector, 850 nm wavelength, and hot-swappable SFP28 form factor, SFP-25G-SR-S ensures seamless integration with Cisco switches and routers. The module is also commonly referred to as Cisco 25G SR SFP28, SFP-25G-SR, or 25GBASE-SR SFP28. It is compliant with IEEE 802.3by, offers low power consumption, and requires RS-FEC on the host port for optimal operation.

Product Highlights

Data Rate
Wavelength
Max. Distance

Key Features

- **Primary Application:**

- Designed for high-speed, short-range 25Gbps Ethernet connections in modern data centers.
- Perfect for Top-of-Rack (ToR) or End-of-Row (EoR) switch-to-server links, where cable runs are typically under 100 meters.
- **Environment:**
 - Best used with OM3/OM4 multimode fiber (MMF), ensuring maximum reach of 70m (OM3) or 100m (OM4/OM5).
- **Functionality Highlights:**
 - Single-rate 25G operation; does not support 10G fallback.
 - Requires RS-FEC on the host port for error-free performance.
 - Hot-swappable SFP28 interface for minimal downtime.
 - Low power consumption (1.2W), ideal for high-density deployments.

Model comparison

Parameter	SFP-25G-SR-S	SFP-10/25G-CSR-S	SFP-10/25G-LR-S
Form Factor	SFP28	SFP28	SFP28
Data Rate	25 Gbps	10/25 Gbps	10/25 Gbps
Interface	LC Duplex	LC Duplex	LC Duplex
Wavelength	850 nm	850 nm	1310 nm
Fiber Type	MMF	MMF	SMF
Max. Distance	70m (OM3) / 100m(OM4)	300m (OM3)/400m (OM4)	10km
Power Consumption	1.2 W	1.2 W	1.3 W
Operating Temp.	0~70°C	0~70°C	0~70°C
FEC Requirement	RS-FEC required	RS-FEC recommended	RS-FEC required
Hot-swappable	Yes	Yes	Yes

Specification

Parameter	Value
Product Model	SFP-25G-SR-S
Form Factor	SFP28
Data Rate	25 Gbps
Wavelength	850 nm
Interface	LC Duplex (PC/UPC)
Cable Type	MMF (OM3/OM4/OM5)
Max. Distance	70m (OM3) / 100m (OM4/OM5)
Transmit Power (max/min)	+2.4 dBm / -8.4 dBm
Receive Power (max/min)	+2.4 dBm / -10.3 dBm
Power Consumption	1.2 W
Operating Temperature	0 to 70°C (32 to 158°F)
Storage Temperature	-40 to 85°C (-40 to 185°F)
FEC Requirement	RS-FEC required
Connector	Dual LC/PC
Compliance	IEEE 802.3by, SFF-8402, SFF-8472, RoHS 6

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