



SFP-25G-SL DataSheet

Cisco SFP-25G-SL is a 25G SFP28 SL transceiver for short links up to 30m over OM4 fiber. Ideal for dense data center server and switch interconnects. RS-FEC required.

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SFP-25G-SL Description

SFP-25G-SL is a Cisco 25GBASE-SL SFP28 optical transceiver designed for ultra-short-reach data center connections. Supporting 25Gbps data rates over multimode fiber, this module reaches up to 20 meters on OM3 and 30 meters on OM4/OM5 fiber. With its compact SFP28 form factor, 850nm wavelength, and standard LC duplex connector, SFP-25G-SL is ideal for server access, short-run switch interconnects, and high-density deployments where cable lengths are minimized. Also referred to as Cisco 25G SL SFP28, it requires RS-FEC for reliable operation and is hot-swappable for maximum network flexibility.

Product Highlights

Data Rate
Wavelength
Max. Distance

Key Features

- **Best Use Case:**
 - Ultra-short server-to-switch or switch-to-switch links within the same rack or neighboring racks in high-density data centers.
 - Ideal for cloud service providers or enterprises with blade server chassis,

hyper-converged infrastructure, or modular data center pods.

- Frequently used where maximum port density, low power, and simple cable management are critical.

- **Functionality:**

- Single-rate 25G operation over OM3/OM4 multimode fiber.
- Requires RS-FEC for reliable 25G connectivity.
- Ultra-low latency and minimal insertion loss due to short reach.
- Lowest cost per port for short fiber runs (20m OM3, 30m OM4/OM5).

- **Typical Industries:**

- Cloud data centers, financial services, high-frequency trading, enterprise private clouds, virtualization clusters.

Model comparison

Parameter	SFP-25G-SL	SFP-25G-SR-S	SFP-10/25G-CSR-S
Form Factor	SFP28	SFP28	SFP28
Data Rate	25 Gbps	25 Gbps	10/25 Gbps
Wavelength	850 nm	850 nm	850 nm
Fiber Type	MMF	MMF	MMF
Max. Distance	20m (OM3)/30m (OM4)	70m (OM3)/100m(OM4)	300m (OM3)/400m(OM4)
Power Consumption	1.2 W	1.2 W	1.2 W
Operating Temp.	0~70°C	0~70°C	0~70°C
FEC Requirement	RS-FEC required	RS-FEC required	RS-FEC recommended
Hot-swappable	Yes	Yes	Yes
Connector	LC Duplex	LC Duplex	LC Duplex
Typical Use Case	Ultra-short links	Short links	Extended reach

Specification

Parameter	Value
Product Model	SFP-25G-SL
Form Factor	SFP28
Data Rate	25 Gbps
Wavelength	850 nm
Interface	LC Duplex (PC/UPC)
Cable Type	MMF (OM3/OM4/OM5)
Max. Distance	20m (OM3) / 30m (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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