Cisco SFP-10G-SR

Datasheet

Product Overview

- Cisco SFP-10G-SR is a 10GBASE-SR SFP+ optical transceiver for 10 Gigabit Ethernet over multimode fiber.
- It uses 850 nm short-reach optics and supports distances from 26 m on FDDI-grade MMF to 400 m on OM4 or OM5 fiber.
- The compact hot-swappable module uses a duplex LC/PC connector for compatible Cisco Ethernet SFP+ ports.
- The module operates in the commercial temperature range from 0°C to 70°C and consumes 1W maximum.
- Its optical characteristics include -1.2 dBm maximum transmit power, -7.3 dBm minimum transmit power, and -9.9 dBm minimum receive power.
- Cisco SFP+ modules provide digital optical monitoring capability for diagnostic visibility during operation.

Product Highlights

- **850 nm MMF Short-Reach Design:** Supports 10GBASE-SR over multimode fiber for data center, campus, and enterprise access links.
- **Multi-Grade Fiber Support:** Supports 26 m on FDDI-grade MMF, 33 m on OM1, 82 m on OM2, 300 m on OM3, and 400 m on OM4 or OM5.
- **Hot-Swappable SFP+ Form Factor:** Installs or replaces without powering down compatible Cisco Ethernet SFP+ equipment.
- **Duplex LC/PC Interface:** Uses a dual LC/PC connector and 850 nm optics for standardized short-reach multimode transmission.

Detailed Features



SFP-10G-SR

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Component	Specification
Product Type	10GBASE-SR SFP+ optical transceiver
Data Rate	10Gbps
Fiber Type	Multimode fiber (MMF)
Wavelength	850 nm
Reach	Up to 400 m on OM3, OM4, or OM5 fiber
Connector	Duplex LC/PC

Short-Reach 10GBASE-SR Connectivity

The SFP-10G-SR is designed for 10 Gigabit Ethernet over multimode fiber, making it suitable for switch-to-switch, server, and access-layer links.

Broad MMF Compatibility

The module supports multiple multimode fiber grades, from 26 m on FDDI-grade fiber and 33 m on OM1 to 300 m on OM3 and 400 m on OM4 or OM5.

850 nm Optical Operation

The module uses an 840860 nm operating wavelength range with defined transmit and receive power limits for short-reach optical links.

Operational Diagnostics

Cisco SFP+ modules provide digital optical monitoring capability, helping operators observe optical conditions and support troubleshooting during service operation.

Commercial Temperature Operation

The module is rated for 0°C to 70°C operation, fitting standard data center and enterprise network environments.

Low Power Consumption

Maximum power consumption is 1W, helping limit the thermal and power budget of dense SFP+ deployments.

Duplex LC/PC Cabling

The dual LC/PC connector supports common duplex multimode fiber patching in structured cabling environments.

Compact Mechanical Compatibility

The module uses the Cisco SFP+ form factor for compatible Ethernet ports and hot-swappable maintenance.

Technical Specifications

Product Specifications

Feature	Value
Product Model	SFP-10G-SR
Product Type	10GBASE-SR SFP+ Module for MMF
Data Rate	10Gbps
Fiber Type	Multimode fiber (MMF)
Ethernet Standard	10GBASE-SR
Nominal Wavelength	850 nm
Operating Wavelength Range	840–860 nm
Connector	Duplex LC/PC
FDDI-Grade MMF Distance	26 m
OM1 Distance	33 m
400 MHz MMF Distance	66 m
OM2 Distance	82 m
OM3 Distance	300 m
OM4 Distance	400 m
OM5 Distance	400 m
Transmit Power	-1.2 dBm maximum; -7.3 dBm minimum

Feature	Value
Receive Power	-1.0 dBm maximum; -9.9 dBm minimum
Power Consumption	1W maximum
Operating Temperature	0°C to 70°C (COM)
Storage Temperature	-40°C to 85°C
Digital Optical Monitoring	Supported as a Cisco SFP+ module capability
Dimensions (H × W × D)	8.5 × 13.4 × 56.5 mm
Typical Connector Weight	75 g or less
Minimum Cabling Distance	2 m, per IEEE 802.3ae note
Warranty	5 years

Product Comparison

Feature	SFP-10G-SR	SFP-10G-LR	SFP-10G-ER
Optical standard	10GBASE-SR	10GBASE-LR	10GBASE-ER
Fiber type	MMF	G.652 SMF	G.652 SMF
Wavelength	850 nm	1310 nm	1550 nm
Maximum distance	26 m FDDI; 33 m OM1; 82 m OM2; 300 m OM3; 400 m OM4/OM5	10 km	40 km
Connector	Duplex LC/PC	Duplex LC/PC	Duplex LC/PC
Transmit power	-1.2 dBm max / -7.3 dBm min	0.5 dBm max / -8.2 dBm min	4.0 dBm max / -4.7 dBm min
Receive power	-1.0 dBm max / -9.9 dBm min	0.5 dBm max / -14.4 dBm min	-1.0 dBm max / -15.8 dBm min
Wavelength range	840–860 nm	1260–1355 nm	1530–1565 nm
Power consumption	1W	1W	1.5W
Operating temperature	0–70°C (COM)	0–70°C (COM)	0–70°C (COM)
Best fit	Short-reach MMF data center or enterprise links	10 km SMF campus or data center interconnect	Longer-reach SMF backbone links

Accessories

Category	Accessories
Included Accessories	Not specified in consulted official documentation
Optional Accessories	Not specified in consulted official documentation

Support & Warranty

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USA Branch

35 E Horizon Ridge Pkwy, Ste 110 #30131, Henderson, NV 89002, USA

UK Branch

Third Floor, 207 Regent Street, London W1B 3HH, UK

References

[1] Cisco. (2026). Cisco 10GBASE SFP+ Modules Data Sheet. Retrieved November 18, 2026, from https://www.cisco.com/c/en/us/products/collateral/interfaces-modules/transceiver-modules/data_sheet_c78-455693.html

[2] Cisco. (2026). Cisco 10GBASE SFP+ Modules Data Sheet (PDF). Retrieved November 18, 2026, from https://www.cisco.com/c/en/us/products/collateral/interfaces-modules/transceiver-modules/data_sheet_c78-455693.pdf