



SFP-10G-LR-S DataSheet

Cisco SFP-10G-LR-S S-Class 10G SFP+ LR transceiver, 1310nm, up to 10km on SMF. Cost-effective long-distance 10G Ethernet solution for data center and enterprise networks.

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SFP-10G-LR-S Description

SFP-10G-LR-S is a Cisco 10GBASE-LR S-Class SFP+ transceiver module designed for long-distance 10 Gigabit Ethernet connections over single-mode fiber (SMF). Also referred to as Cisco 10G SFP+ LR S-Class or 10GBASE-LR SFP+, this module operates at 1310 nm and supports transmission distances up to 10 kilometers on standard G.652 SMF. With a hot-swappable design and digital optical monitoring (DOM) capability, it delivers reliable, cost-effective optical connectivity for data centers, enterprise backbones, and metropolitan networks. Please note, SFP-10G-LR-S does not support FCoE protocol.

Product Highlights

Data Rate
Wavelength
Max Cable Distance

Key Features

Functionality:

- Supports 10GBASE-LR Ethernet only
- Does NOT support FCoE (Fibre Channel over Ethernet)
- No OTU2/OTU2e support

- Commercial temperature range (0°C to 70°C)

Recommended Scenarios:

- Cost-sensitive, large-scale 10G deployments where only standard Ethernet long-range (up to 10km on SMF) is needed
- Data centers, enterprise, or campus networks that do not require storage traffic or advanced transport protocols
- Simple, reliable 10G backbone or aggregation links over single-mode fiber
- Best for standard environments with controlled temperature and routine data transmission needs

Model comparison

Parameter	SFP-10G-LR-S	SFP-10G-LR	SFP-10G-LR-X
Form Factor	SFP+	SFP+	SFP+
Data Rate	10 Gbps	10 Gbps	10 Gbps
Wavelength	1310 nm	1310 nm	1310 nm
Max. Distance (SMF)	10 km	10 km	10 km
FCoE Support	No	Yes	Yes
OTN/OTU2/OTU2e Support	No	No	Yes
Power Consumption	1W	1W	1W
Operating Temp.	0-70°C (Commercial)	0-70°C (Commercial)	-5-85°C (Extended)
DOM/DDM	Yes	Yes	Yes
Application	Standard 10G LR	10G LR + FCoE	Wide Temp/OTN/FCoE
Typical Use	Cost-Effective 10G LR	Data Center/Storage	Industrial/Carrier

Specification

Parameter	Specification
Product ID	SFP-10G-LR-S
Form Factor	SFP+
Data Rate	10 Gbps
Wavelength	1310 nm
Optical Interface	LC Duplex
Cable Type	Single-Mode Fiber (G.652)
Max. Distance	10 km (SMF, G.652)
Tx Power	0.5 to -8.2 dBm
Rx Power	0.5 to -14.4 dBm
Wavelength Range	1260-1355 nm
Power Consumption	1W
Operating Temperature	0°C to 70°C (Commercial)
Hot Swappable	Yes
Digital Optical Monitoring (DOM)	Yes
Protocols	10GBASE-LR (IEEE 802.3ae)
FCoE Support	No
Dimensions (HxWxD)	8.5 x 13.4 x 56.5 mm

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