



SFP-10G-LR DataSheet

Cisco SFP-10G-LR 10GBASE-LR SFP+ transceiver, 1310nm, 10km single-mode, LC duplex, DOM, compatible with Cisco switches and routers for long-distance 10G Ethernet connections

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SFP-10G-LR Description

SFP-10G-LR is a Cisco 10GBASE-LR SFP+ transceiver module designed for long-distance 10 Gigabit Ethernet and Fibre Channel over Ethernet (FCoE) connectivity. Also known as Cisco 10G SFP+ LR or 10GBASE-LR SFP+, it operates at 1310 nm and supports transmission distances up to 10 kilometers over standard G.652 single-mode fiber. With hot-swappable design, digital optical monitoring (DOM), and compliance with IEEE 802.3ae and FCoE protocols, it is ideal for data center backbones, enterprise core layers, and metropolitan networks requiring reliable, high-speed optical links and storage convergence.

Product Highlights

Data Rate
Wavelength
Max Cable Distance

Key Features

Functionality:

- Supports 10GBASE-LR Ethernet and FCoE (Fibre Channel over Ethernet)
- No OTU2/OTU2e support

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

Recommended Scenarios:

- Enterprise or data center networks where converged Ethernet and storage traffic (FCoE) is required over the same fiber link
- Suitable for customers looking for maximum protocol compatibility and flexibility for both data and storage networking
- 10G connections in environments that may integrate SAN and LAN over the same infrastructure
- Use when FCoE support is necessary for future-proofing or current requirements

Model comparison

Parameter	SFP-10G-LR	SFP-10G-LR-S	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	10 km	10 km	10 km
Fiber Type	SMF (G.652)	SMF (G.652)	SMF (G.652)
Operating Temp	0~70°C (COM)	0~70°C (COM)	-5~85°C (EXT)
Transmit Power	0.5 to -8.2 dBm	0.5 to -8.2 dBm	0.5 to -8.2 dBm
Receive Power	0.5 to -14.4 dBm	0.5 to -14.4 dBm	0.5 to -14.4 dBm
Power Consumption	1W	1W	1W
DOM Support	Yes	Yes	Yes
FCoE Support	Yes	No	Yes

Specification

Parameter	Description
Product Model	SFP-10G-LR
Form Factor	SFP+
Data Rate	10 Gbps
Wavelength	1310 nm
Max Distance	10 km (Single-Mode Fiber, G.652)
Connector Type	LC Duplex
Fiber Type	Single-Mode Fiber (SMF)
Transmit Power	0.5 to -8.2 dBm
Receive Power	0.5 to -14.4 dBm
Power Consumption	1W
DOM Support	Yes
Operating Temperature	0°C to 70°C (Commercial)
Bail Latch Color	Blue
Hot Swappable	Yes
Dimensions	8.5 x 13.4 x 56.5 mm
Weight	≤75g

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