



## SFP-10G-LR-X DataSheet

Cisco SFP-10G-LR-X SFP+ transceiver, 10GBASE-LR/LW, 1310nm, 10km single-mode, LC duplex, DOM, extended temperature. Reliable 10G optical module for harsh or industrial environments.

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### SFP-10G-LR-X Description

SFP-10G-LR-X (also known as Cisco 10GBASE-LR-X SFP+, 10G LR-X SFP, or SFP+ LR-X) is a multirate 10G SFP+ optical transceiver designed for extended temperature environments and demanding network conditions. Supporting 10 Gigabit Ethernet, 10GBASE-LR, 10GBASE-LW, and OTU2/OTU2e, the SFP-10G-LR-X provides long-range optical connectivity up to 10 kilometers over single-mode fiber at 1310nm. With Digital Optical Monitoring (DOM) and robust interoperability across Cisco's enterprise and service provider platforms, this module delivers reliable high-speed links for mission-critical data center, metro, and industrial deployments.

### Product Highlights

Data Rate  
Wavelength  
Max Cable Distance

### Key Features

#### Functionality:

- Supports 10GBASE-LR Ethernet, FCoE, and OTU2/OTU2e (Optical Transport Network)
- Extended temperature range (-5°C to 85°C), suitable for harsh/industrial/outdoor

environments

### Recommended Scenarios:

- Industrial, metro, or carrier networks where optical modules are deployed in cabinets, base stations, or locations exposed to wide temperature variations
- Scenarios requiring both storage (FCoE) and advanced transport protocols (OTU2/OTU2e) on the same optical link
- Mission-critical deployments where reliability in extreme conditions is crucial
- Best for service providers, carriers, and any application where hardware resilience and protocol versatility are top priorities

## Model comparison

Parameter	SFP-10G-LR-X	<a href="#">SFP-10G-LR</a>	<a href="#">SFP-10G-LR-S</a>
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	-5~85°C (EXT)	0~70°C (COM)	0~70°C (COM)
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	Yes	No
Bail Latch Color	Blue	Blue	Blue

### Specification

Parameter	Description
Product Model	SFP-10G-LR-X
Form Factor	SFP+
Data Rate	10 Gbps
Wavelength	1310 nm
Max Distance	10 km (Single-Mode Fiber, G.652)
Supported Protocols	10GBASE-LR, 10GBASE-LW, OTU2/OTU2e
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	-5°C to 85°C (Extended)
Bail Latch Color	Blue
Hot Swappable	Yes
Dimensions	8.5 x 13.4 x 56.5 mm
Weight	≤75g

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