



SFP-10G-ER DataSheet

Cisco SFP-10G-ER SFP+ transceiver, 10GBASE-ER, 1550nm, 40km single-mode, LC duplex, DOM, FCoE support. Ideal for long-distance 10G Ethernet and storage networks

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SFP-10G-ER Description

SFP-10G-ER (also known as Cisco 10GBASE-ER SFP+, 10G ER SFP, or SFP+ ER) is a full-featured 10 Gigabit SFP+ optical transceiver designed for long-distance, high-performance Ethernet and Fibre Channel over Ethernet (FCoE) applications. This module supports 10Gbps transmission over single-mode fiber up to 40 kilometers at a 1550nm wavelength. With FCoE support, Digital Optical Monitoring (DOM), and hot-swappable capability, SFP-10G-ER is an ideal solution for enterprise backbone, metro, and carrier networks that require robust and flexible 10G optical connectivity. Compatible with a wide range of Cisco switches and routers, it enables seamless integration in mission-critical environments.

Product Highlights

Data Rate
Wavelength
Max Cable Distance

Key Features

Typical Application Scenarios:

- Enterprise backbone and service provider WAN uplinks that may require both Ethernet and storage traffic

- Carrier-grade, high-availability networks
- Environments where FCoE or multiprotocol support is needed

Functional Features & Differences:

- Full-featured module: FCoE support included
- Commercial temperature range (0°C to 70°C)
- Supports Digital Optical Monitoring (DOM)
- Greater interoperability and protocol coverage compared to S-Class

Model comparison

Parameter	SFP-10G-ER	SFP-10G-ER-S	SFP-10G-ER-I
Form Factor	SFP+	SFP+	SFP+
Data Rate	10 Gbps	10 Gbps	10 Gbps
Wavelength	1550 nm	1550 nm	1550 nm
Max Distance	40 km	40 km	40 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	4.0 to -4.7 dBm	4.0 to -4.7 dBm	4.0 to -4.7 dBm
Receive Power	-1 to -15.8 dBm	-1 to -15.8 dBm	-1 to -15.8 dBm
Power Consumption	1.5W	1.5W	1.5W
DOM Support	Yes	Yes	Yes
FCoE Support	Yes	No	Yes
Bail Latch Color	Red	Red	Red

Specification

Parameter	Description
Product Model	SFP-10G-ER
Form Factor	SFP+
Data Rate	10 Gbps
Wavelength	1550 nm
Max Distance	40 km (Single-Mode Fiber, G.652)
Connector Type	LC Duplex
Fiber Type	Single-Mode Fiber (SMF)
Transmit Power	4.0 to -4.7 dBm
Receive Power	-1 to -15.8 dBm
Power Consumption	1.5W
DOM Support	Yes
FCoE Support	Yes
Operating Temperature	0°C to 70°C (Commercial)
Bail Latch Color	Red
Hot Swappable	Yes
Dimensions	8.5 x 13.4 x 56.5 mm
Weight	≤75g

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