



## SFP-10G-ZR-S DataSheet

Cisco SFP-10G-ZR-S SFP+ transceiver, 10GBASE-ZR, 1550nm, 80km single-mode, LC duplex, DOM, S-Class. Designed for ultra-long-distance 10G Ethernet links in enterprise and carrier networks.

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### SFP-10G-ZR-S Description

SFP-10G-ZR-S (also known as Cisco 10GBASE-ZR SFP+, 10G ZR SFP, or SFP+ ZR-S) is an S-Class, long-range 10 Gigabit SFP+ optical transceiver designed for ultra-long-distance Ethernet applications. Supporting 10GBASE-ZR, it delivers 10Gbps connectivity over single-mode fiber up to 80 kilometers at a 1550nm wavelength. SFP-10G-ZR-S features Digital Optical Monitoring (DOM) for advanced diagnostics, is hot-swappable, and is designed for use within commercial temperature ranges. This module is ideal for enterprise, service provider, and carrier networks that require stable, high-speed connections across metro or regional distances.

### Product Highlights

Data Rate  
Wavelength  
Max Cable Distance

### Key Features

#### Typical Application Scenarios:

- Ultra-long-distance 10GbE connections (up to 80km) in enterprise, service provider, and metro Ethernet networks

- Deployments where only Ethernet traffic is required and Fibre Channel over Ethernet (FCoE) is not needed
- Cost-sensitive projects that still require advanced monitoring and long reach in controlled environments

### Functional Features & Differences:

- S-Class (Standard class): optimized for 10G Ethernet only, no FCoE support
- Commercial temperature range (0°C to 70°C)
- Supports Digital Optical Monitoring (DOM)
- Lower cost than the full-featured ZR version
- Green bail latch for easy identification

### Model comparison

Parameter	SFP-10G-ZR-S	SFP-10G-ZR	<a href="#">SFP-10G-ER-S</a>
Form Factor	SFP+	SFP+	SFP+
Data Rate	10 Gbps	10 Gbps	10 Gbps
Wavelength	1550 nm	1550 nm	1550 nm
Max Distance	80 km	80 km	40 km
Fiber Type	SMF (G.652)	SMF (G.652)	SMF (G.652)
Operating Temp	0~70°C (COM)	0~70°C (COM)	0~70°C (COM)
Transmit Power	4.0 to 0 dBm	4.0 to 0 dBm	4.0 to -4.7 dBm
Receive Power	-7 to -24 dBm	-7 to -24 dBm	-1 to -15.8 dBm
Power Consumption	1.5W	1.5W	1.5W
DOM Support	Yes	Yes	Yes
FCoE Support	No	No	No
Bail Latch Color	Green	Green	Red

## Specification

Parameter	Description
Product Model	SFP-10G-ZR-S
Form Factor	SFP+
Data Rate	10 Gbps
Wavelength	1550 nm
Max Distance	80 km (Single-Mode Fiber, G.652)
Connector Type	LC Duplex
Fiber Type	Single-Mode Fiber (SMF)
Transmit Power	4.0 to 0 dBm
Receive Power	-7 to -24 dBm
Power Consumption	1.5W
DOM Support	Yes
FCoE Support	No
Operating Temperature	0°C to 70°C (Commercial)
Bail Latch Color	Green
Hot Swappable	Yes
Dimensions	8.5 x 13.4 x 56.5 mm
Weight	≤75g

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