



SFP-10G-ZR DataSheet

Cisco SFP-10G-ZR SFP+ transceiver, 10GBASE-ZR/ZW, 1550nm, 80km single-mode, LC duplex, DOM, FCoE support, multiprotocol. Designed for ultra-long-distance 10G links in carrier and enterprise networks.

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SFP-10G-ZR Description

SFP-10G-ZR (also known as Cisco 10GBASE-ZR SFP+, 10G ZR SFP, or SFP+ ZR) is a high-performance, full-featured 10 Gigabit SFP+ optical transceiver designed for ultra-long-distance and converged network applications. Supporting 10GBASE-ZR, 10GBASE-ZW, OTU2/OTU2e, and Fibre Channel over Ethernet (FCoE) protocols, this module delivers reliable 10Gbps connectivity over single-mode fiber up to 80 kilometers at a 1550nm wavelength. SFP-10G-ZR features Digital Optical Monitoring (DOM) for real-time diagnostics, hot-swappable design, and broad compatibility with Cisco switches and routers. It is ideal for carrier, enterprise WAN, and metro network backbones requiring maximum flexibility and interoperability.

Product Highlights

Data Rate
Wavelength
Max Cable Distance

Key Features

Typical Application Scenarios:

- Ultra-long-distance 10GbE and multi-protocol (Ethernet and storage) links for service

provider, carrier, or enterprise WAN environments

- Environments requiring both Ethernet and Fibre Channel over Ethernet (FCoE), or OTU2/OTU2e protocol support
- Advanced or converged network deployments where broader compatibility and flexibility are needed

Functional Features & Differences:

- Full-featured module: supports 10G Ethernet, FCoE, and OTU2/OTU2e protocols
- Commercial temperature range (0°C to 70°C)
- Supports Digital Optical Monitoring (DOM)
- Broader interoperability and protocol coverage
- Green bail latch for easy identification

Model comparison

Parameter	SFP-10G-ZR	SFP-10G-ZR-S	SFP-10G-ER
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	Yes	No	Yes
Multiprotocol Support	Yes	No	Yes

Bail Latch Color	Green	Green	Red
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Specification

Parameter	Description
Product Model	SFP-10G-ZR
Form Factor	SFP+
Data Rate	10 Gbps
Wavelength	1550 nm
Max Distance	80 km (Single-Mode Fiber, G.652)
Supported Protocols	10GBASE-ZR, 10GBASE-ZW, OTU2/OTU2e, FCoE
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	Yes
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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