

SFP-10G-ZR Datasheet



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Overview

The Cisco SFP-10G-ZR is a multi-rate 10GBASE-ZR, 10GBASE-ZW, and OTU2/OTU2e module. It supports link lengths of up to about 80 kilometers on standard Single-Mode Fiber (SMF, G.652). This interface is not specified as part of the 10 Gigabit Ethernet standard and is instead built according to Cisco specifications.

Quick Spec

Table 1 shows the quick spec.

| | |
|-----------------------------|-------------------|
| Model | Cisco SFP-10G-ZR* |
| Wavelength (nm) | 1550 |
| Cable Type | SMF |
| Core Size (Microns) | G.652 |
| Modal Bandwidth (MHz*km) ** | - |
| Cable Distance*** | 80km |

*Requires 15dB attenuator if Link Distance < 5km.

Requires 10dB attenuator if Link Distance is between 5km and 15km.

Requires 5dB attenuator if Link Distance is between 15km and 25km.

**Specified at transmission wavelength.

***Minimum cabling distance for -SR, -LRM, -LR, -ER modules is 2m, according to the IEEE 802.3ae.

Platform support

Table 2 shows the recommend series of platforms.

| | |
|---|---|
| <ul style="list-style-type: none">7600 Series RouterASR-903ASR 1000 Series RouterASR 9000 Series RouterCatalyst 2960-S, 2960-X, and 2960-XR Series SwitchesCatalyst 3850 Series Switches | <ul style="list-style-type: none">Catalyst 4500 and 4500-X Series SwitchesNexus 2000, 3000 Series SwitchesNexus 9000 and 9500 (modular) Series Switches |
|---|---|

Compare to Similar Item

Table 3 shows the comparison.

| Cisco SFP+ | Wavelength (nm) | Cable Type | Core Size (Microns) | Modal Bandwidth (MHz*km) | Cable Distance | |
|-----------------------------------|-----------------|------------|------------------------------------|--------------------------|----------------|------|
| Cisco SFP-10G-SR | 850 | MMF | 62.5 | 160 (FDDI) | 26m | |
| | | | 62.5 | 200 (OM1) | 33m | |
| | | | Cisco SFP-10G-SR-X | 50 | 400 | 66m |
| | | | | 50 | 500 (OM2) | 82m |
| | | | | 50 | 2000 (OM3) | 300m |
| | | | | 50 | 4700 (OM4) | 400m |
| Cisco SFP-10G-LRM | 1310 | MMF | 62.5 | 500 | 220m | |
| | | SMF | 50 | 400 | 100m | |

| | | | | | |
|----------------------------------|------|-----|-------|-----|------|
| | | | 50 | 500 | 220m |
| | | | G.652 | - | 300m |
| Cisco SFP-10G-LR | 1310 | SMF | G.652 | - | 10km |
| Cisco SFP-10G-ER | 1550 | SMF | G.652 | - | 40km |
| Cisco SFP-10G-ZR | 1550 | SMF | G.652 | - | 80km |

Get More Information

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Specification

| Cisco SFP-10G-ZR Specification | |
|--|--|
| SFP+ port cabling specifications | |
| Wavelength (nm) | 1550 |
| Cable Type | SMF |
| Core Size (Microns) | G.652 |
| Modal Bandwidth (MHz*km) | - |
| Cable Distance | 80km |
| Optical transmit and receive specifications | |
| Type | 10GBASE-ZR 1550nm SMF |
| Transmit Power (dBm) | 4.0 (Max), 0 (Min) |
| Receive Power (dBm) | -7 (Max), -24 (Min) |
| Transmit and Receive Wavelength (nm) | 1530 to 1565 |
| Other Specification | |
| Bail Latch Color | Green |
| Power Consumption (W) | 1.5 |
| Operating Temperature Range | COM |
| Dimensions | Dimensions (H x W x D): 8.5 x 13.4 x 56.5mm. Cisco SFP+ connectors typically weigh 75 grams or less. |
| Operating Temperature Range | <ul style="list-style-type: none"> Commercial temperature range (COM): 0 to 70°C (32 to 158°F) Extended temperature range (EXT): -5 to 85°C (23 to 185°F) Industrial temperature range (IND): -40 to 85°C (-40 to 185°F) Storage temperature range: -40 to 85°C (-40 to 185°F) |

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