

Cisco CXP-100G-SR10 Datasheet



Cisco CXP-100G-SR10 100GBASE-SR10 CXP Module for MMF compliant to 10GBASE-SR

CXP-100G-SR10

The Cisco CXP 100GBASE modules offer customers a wide variety of high-density 100Gbps connectivity solutions for short-reach data center networking, high-performance computing networks, enterprise core aggregation, and service provider transport applications.

Features and benefits

- Primary features of Cisco CXP 100GBASE modules include:
- Support for 100 Gigabit Ethernet
- Hot-swappable input/output device that plugs into a Cisco CXP-module-based switch, router, or optical platform port
- Flexibility of interface choice
- Support for a "pay-as-you-grow" model
- Support for Digital Optical Monitoring (DOM)
- CXP-100G-SR10 and CXP-100G-SR12 are both interoperable with any IEEE-compliant 100GBASE-SR10 form factors
- Support for the Cisco quality identification (ID) feature, which enables a Cisco platform to identify whether the module is certified and tested by Cisco
- Easy-to-use pull-release handle that is color coded for reach identification
- Capable of supporting 120Gb/s by utilizing all 12 optical lanes for high-density interconnect applications
- CXP-100G-SR10 supports breakout applications; each lane complies with 10GBASE-SR requirements and OTN

rates up to 11.25Gb/s

- CXP-100G-SR10 and CXP-100G-SR12 both support breakout applications for 40GBASE-SR4
- Operating distance of maximum 100 meters over OM3 fibers or maximum 150 meters over OM4 fibers
- Power consumption of maximum 3.5W
- Operating case temperature of 0°C to 70°C
- MPO-24 optical receptacle

Cisco CXP-100G-SR10 CXP 100GBASE-SR10 module

The Cisco CXP 100GBASE-SR10 module supports link lengths of 100m and 150m on laser-optimized OM3 and OM4 multifiber cables, respectively. The module delivers high-bandwidth 100-gigabit links over 24-fiber ribbon cables terminated with MPO/MTP-24 optical connectors. It can also be used in 10 x 10-Gb mode along with ribbon-to-duplex-fiber breakout cables for connectivity to ten 10GBASE-SR optical interfaces.

Connectors and cabling

24-fiber MPO/MTP connector (CXP 100GBASE-SR10 and CXP-100G-SR12 modules receive a female MPO/MTP-24 connector)

Note: Only connections with patch cords with PC or UPC connectors are supported. Patch cords with APC connectors are not supported. All cables and cable assemblies used must be compliant with the standards specified in the Regulatory and Standards Compliance section, later in this document.

Specifications

- Product Number: CXP-100G-SR10
- Description: 100GBASE-SR10 CXP Module for MMF compliant to 10GBASE-SR
- Wavelength: 850nm
- Cable Type: MMF
- Cable Distance:
 - 100m @ OM3
 - 150m @ OM4
- Transmit Power (dBm)
 - Maximum: -1.0 per lane
 - Minimum: -7.6 per lane
- Receive Power (dBm)
 - Maximum: 2.4 per lane
 - Minimum: -9.5 per lane
- Transmit and Receive Center Wavelength Range (nm): 12 lanes: 840 to 860 nm

Platform Support

Cisco CXP modules are supported on Cisco switches and routers. For more details, refer to Cisco 100 Gigabit Ethernet Transceiver Modules Compatibility Matrix.

Dimensions

- Maximum outer dimensions for the CXP modules are (H x W x D) 13.3 x 24 x 62 mm (0.52 x 0.94 x 2.44 in).
- The Cisco CXP modules typically weigh less than 200 grams (7 oz.).

Environmental conditions and power requirements

- Storage temperature range: -40 to 85°C (-40 to 185°F)
- CXP operating temperature range: 0 to 70°C (32 to 158°F)
- CXP power consumption at 70°C: