

# Cisco GLC-FE-100BX-D Datasheet



Cisco GLC-FE-100BX-D 100BASE-BX10-D SFP for Fast Ethernet SFP Ports

## GLC-FE-100BX-D

The Cisco 100BASE-X Small Form-Factor Pluggable (SFP) device is a hot-swappable input/output device that plugs into Fast Ethernet ports, dual-rate Fast/Gigabit Ethernet ports, or Gigabit Ethernet ports of a Cisco switch or router, linking the port with the fiber cabling network.

Main features include the following:

- Hot-swappable when deployed, the switch or router does not have to reboot
- Supports the “pay-as-you-populate” model
- Interchangeable with other 100BASE-X SFPs on the same line card
- Supports the Cisco quality ID feature that enables the switch or router to identify whether or not the SFP is a Cisco qualified SFP
- Optically interoperable with respective 100BASE-X Ethernet interfaces on the same link

## Cisco 100BASE-BX10 SFP

The Cisco 100BASE-BX10 (part numbers GLC-FE-100BX-D and GLC-FE-100BX-U) SFPs operate on ordinary SMF single-

strand link spans up to 10 km long. A 100BASE-BX10-D device is always connected a 100BASE-BX10-U device with a single strand of standard SMF with an operating transmission range up to 10 km. The communication over a single strand of fiber is achieved by separating the transmission wavelength of the two devices. 100BASE-BX10-D transmits a 1550-nm channel and receives a 1310-nm signal, whereas a 100BASE-BX10-U transmits a 1310-nm wavelength and receives a 1550-nm signal.

## Specifications

- Product Number: GLC-FE-100BX-D
- SFP Type: 100BASE-BX10-D
- Connectors: Single LC connector
- Wavelength: T-1550nm, R-1310nm
- Fiber Type: SMF
- Cable Distance: 10 km (32,810 ft)
- Transmit (dBm)
  - Maximum: -8
  - Minimum: -14
- Receive (dBm)
  - Maximum: -3
  - Minimum: -28.2
- Dimensions (H x W x D): 8.5 x 13.4 x 56.5 mm
- Operating temperature range: Commercial temperature range (COM): 0 to 70°C (32 to 158°F)
- Storage temperature range: -40 to 85°C (-40 to 185°F)
- Power consumption: up to 1W per port

## Platform Support

- Catalyst 2960-S Series - WS-C2960S-48FPS-L
- Catalyst Express 520 - WS-CE520-24PC-K9
- 2900 Series Integrated Services Router - HWIC-1GE-SFP

- Catalyst 2960-C Series - WS-C2960C-8TC-S
- Catalyst 2960-C Series - WS-C2960C-12PC-L
- Catalyst 2960-C Series - WS-C2960CG-8TC-L
- Catalyst 2960-S Series - WS-C2960S-24PS-L
- IE2000 Series - IE-2000-16TC-G-N
- ME 3400 - ME-3400EG-2CS-A
- Catalyst 2960 Series - WS-C2960G-8TC-L
- Catalyst Express 520 - WS-CE520-24LC-K9
- 892F Series Wireless Integrated Services Router - CISCO892FW-K9
- IE2000 Series - IE-2000-16TC-L
- Catalyst 2960+ Series - WS-C2960+48PST-L
- Catalyst Express 500 - WS-CE500-12TC
- IE2000 Series - IE-2000-8TC-B
- Catalyst 3560 Series - WS-C3560-12PC-S
- Catalyst 3560-C Series - WS-C3560C-8PC-S
- ME 3400 - ME-3400EG-12CS-M
- Catalyst Express 500 - WS-CE500G-12TC
- Catalyst 3560 Series - WS-C3560-8PC-S
- ME 2400 - ME-2400-24TS-D
- Catalyst 2960 Series - WS-C2960G-24TC-L
- ME 3400 - ME-3400-24TS-D
- IE2000 Series - IE-2000-16TC-B
- IE3000 Series Switch - IE-3000-8TC
- Catalyst 2960 Series - WS-C2960-24TC-L
- Catalyst 2960 Series - WS-C2960-48PST-L
- Catalyst 3560-C Series - WS-C3560CG-8TC-S
- ME 3400 - ME-3400G-2CS-A
- Cisco 7604 V01
- Catalyst 3560-C Series - WS-C3560CG-8PC-S
- Catalyst 2960+ Series - WS-C2960+24TC-L
- 892F Series Wireless Integrated Services Router - CISCO892F-K9
- Catalyst 2960 Series - WS-C2960-24PC-L
- IE3010 Series Switch - IE-3010-16S-8PC
- Catalyst 2960 Series - WS-C2960-8TC-L
- 1900 Series Integrated Services Router - EHWIC-1GE-SFP-CU
- Catalyst 3560-C Series - WS-C3560C-12PC-S
- IE2000 Series - IE-2000-8TC-L

- 2000 Connected Grid Router Series - CGR 2010
- ME 6500 Series - ME-C6524GS-8S
- 7600 Series Router - WS-X6148-FE-SFP

## Regulatory and Standards Compliance

### Safety

- Laser Class 1 21CFR1040 LN#50 7/2001
- Laser Class I IEC 60825

### Standards

- IEEE 802.3u
- IEEE 802.3z
- IEEE 802.3ah
- GR-20-CORE: Generic Requirements for Optical Fiber and Optical Fiber Cable
- GR-326-CORE: Generic Requirements for Single-Mode Optical Connectors and Jumper Assemblies
- GR-1435-CORE: Generic Requirements for Multifiber Optical Connectors
- RoHS 5

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