

Cisco GLC-BX-U Datasheet



Cisco GLC-BX-U 1000BASE-BX10-U upstream bidirectional single fiber; with DOM

GLC-BX-U

The industry-standard Cisco Small Form-Factor Pluggable (SFP) Gigabit Interface Converter links your switches and routers to the network. The hot-swappable input/output device plugs into a Gigabit Ethernet port or slot. Optical and copper models can be used on a wide variety of Cisco products and intermixed in combinations of 1000BASE-T, 1000BASE-SX, 1000BASE-LX/LH, 1000BASE-EX, 1000BASE-ZX, or 1000BASE-BX10-D/U on a port-by-port basis.

Features and benefits

- Hot swappable to maximize uptime and simplify serviceability
- Flexibility of media and interface choice on a port-by-port basis, so you can “pay as you populate”
- Robust design for enhanced reliability
- Supports Digital Optical Monitoring (DOM) capability

1000BASE-BX10-D and 1000BASE-BX10-U SFP for single-fiber bidirectional applications

The 1000BASE-BX-D and 1000BASE-BX-U SFPs, compatible with the IEEE 802.3ah 1000BASE-BX10-D and 1000BASE-BX10-U standards, operate on a single strand of standard SMF.

A 1000BASE-BX10-D device is always connected to a 1000BASE-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 as depicted in Figure 2: 1000BASE-BX10-D transmits a 1490-nm channel and receives a 1310-nm signal, whereas 1000BASE-BX10-U transmits at a 1310-nm wavelength and receives a 1490-nm signal. As shown, the presence of a Wavelength-Division Multiplexing (WDM) splitter integrated into the SFP to split the 1310-nm and 1490-nm light paths.

The GLC-BX-D and GLC-BX-U SFPs also support Digital Optical Monitoring (DOM) functions according to the industry-standard SFF-8472 Multisource Agreement (MSA). This feature gives the end user the ability to monitor real-time parameters of the SFP, such as optical output power, optical input power, temperature, laser bias current, and transceiver supply voltage.

The GLC-BX-D-I and GLC-BX-U-I are the Industrial temperature rated (IND) counterparts of GLC-BX-D and GLC-BX-U SFPS. This allows link operation in harsh environmental conditions where the module case temperature can be in the range -40°C to 85°C.

Specifications

- Product Number: GLC-BX-U
- Product Description: 1000BASE-BX10-U upstream bidirectional single fiber; with DOM
- Connector: Single LC/PC connector
- Wavelength: TX-1310nm, RX-1490nm

- Fiber: SMF
- Operating Distance: 10000m (32,821 ft) @ SMF
- Transmit Power Range (dBm): -3 to -9
- Receiver Power Range (dBm): -3 to -19.5
- Wavelength Range (nm):
 - 1260 to 1360 (Transmit)
 - 1480 to 1500 (Receive)
- 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)
- DOM: Yes

Platform support

- ASA5500 Series Appliances
- ASR 901 and 903 Series Routers
- ASR 1000, 9000, and 9000v Series Routers
- Catalyst Express 500 and Express 520
- Catalyst 2350 and 2360 Series
- Catalyst 2900, 2940, 2950, 2960, 2960-Plus, 2960-C, 2960-S, 2960-SF, 2960-X Series
- Catalyst 2970 and 2975 Series
- Catalyst 3000 and 3100 Blade Switches
- Catalyst 3500XL Series
- Catalyst 3550, 3560, 3560-C, 3560-E, 3560-X Series
- Catalyst 3750-E Series, 3750 Metro, 3750-X Series
- Catalyst 3850 Series
- Catalyst 4500 and 4500-X Series
- Catalyst 4900 Series
- Catalyst 6000 Series
- Catalyst 6800 Series
- Cisco 1941 Series Router
- Cisco 2600, 2800, 2900 Series Router

- Cisco 3200, 3600, 3700 Series Router
- Cisco 4400 Series Router
- Cisco 5700 Series Wireless LAN Controller
- Cisco 6400 Universal Access Router
- Cisco uBR7200 Series
- Cisco 7200, 7300, 7500, and 7600 Series Routers
- Cisco 10000 and uBR 10000 Series Routers
- Cisco 10700 Series Internet Router
- Cisco 12000 Series Router
- Cisco 2000 Connected Grid Router Series
- Cisco 2500 Connected Grid Switch Series
- Cisco IE2000 and IE2000U Series
- Cisco IE3010 Series
- Cisco MDS 9000
- Cisco ME 2400
- Cisco ME 2600X
- Cisco ME 3400
- Cisco ME 3600X and ME 3800X
- Cisco ME 4600 and ME 4900 Series
- Cisco ME 6500 Series
- Cisco MWR 2941 Mobile Wireless Router
- CRS Router Series
- CSS 11500 Series
- Cisco RF Gateway Series
- NAM 2200 Series Appliances
- Nexus 2000, 3000, 4000, 5000, 7000, 9000, 9300, 9500 (modular) Series

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