GLC-SX-MMD Datasheet

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Overview

The GLC-SX-MMD 1000BASE-SX SFP is made for Multimode Fiber only.

The 1000BASE-SX SFP, compatible with the IEEE 802.3z 1000BASE-SX standard, operates on legacy 50 µm multimode fiber links up to 550 m and on 62.5 µm Fiber Distributed Data Interface (FDDI)-grade multimode fibers up to 220 m. It can support up to 1km over laser-optimized 50 µm multimode fiber cable. 850-nm wavelength, extended operating temperature range and DOM support, dual LC/PC connector.

The table provides cabling specifications for the SFPs that you install in the Gigabit Ethernet port.

Note that all SFP ports have LC-type connectors, and the minimum cable distance for all SFPs listed (multimode and single-mode fiber) is 6.5 feet (2 m).

SFP Port Cabling Specifications

Product	Wavelength (nm)	Fiber Type	Core Size (µm)	Modal Bandwidth (MHz* Km)***	Operating Distance (m)
1000BASE-SX (GLC-SX-MMD)	850	MMF	62.5	160 (FDDI-grade)	220 (722 ft)
			62.5	200 (OM1)	275 (902 ft)
			50	400 (400/400)	500 (1,640 ft)
			50	500 (OM2)	550 (1,804 ft)
			50	2000 (OM3)	1000 (3281 ft)
1000BASE-LX/LH (GLC-LH-SMD)	1310	MMF*	62.5	500	550 (1,804 ft)
			50	400	550 (1,804 ft)
			50	500	550 (1,804 ft)
		SMF	-**	-	10,000 (32,821 ft)
1000BASE-EX	1310	SMF	-**	-	40,000 (131,234 ft)
1000BASE-ZX (GLC-ZX-SM) (GLC-ZX-SMD)	1550	SMF	-	-	Approximately 70 km depending on link loss
1000BASE-BX-U	1310	SMF	-**	-	10,000 (32,821 ft)
1000BASE-BX-D	1490	SMF	-**	-	10,000 (32,821 ft)

*A mode-conditioning patch cord, as specified by the IEEE standard, is required regardless of the span length. Note how the mode conditioning patch cord for 62.5-µm fibers has a different specification from the mode-conditioning patch cord for 50-µm fibers.

**ITU-T G.652 SMF as specified by the IEEE 802.3z standard.

***Specified at transmission wavelength.

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Do you have any question about the GLC-SX-MMD?

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Specification

SFP Port Cabling Specifications

Product	Wavelength (nm)	Fiber Type	Core Size (μm)	Modal Bandwidth (MHz* Km)***	Operating Distance (m)
1000BASE-SX	**850**	**MMF**	**62.5**	**160 (FDDI-grade)**	**220 (722 ft)**
			62.5	**200 (OM1)**	**275 (902 ft)**
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Note:
*A mode-conditioning patch cord, as specified by the IEEE standard, is required regardless of the span length. Note how the mode conditioning patch cord for 62.5-μm fibers has a different specification from the mode-conditioning patch cord for 50-μm fibers.
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