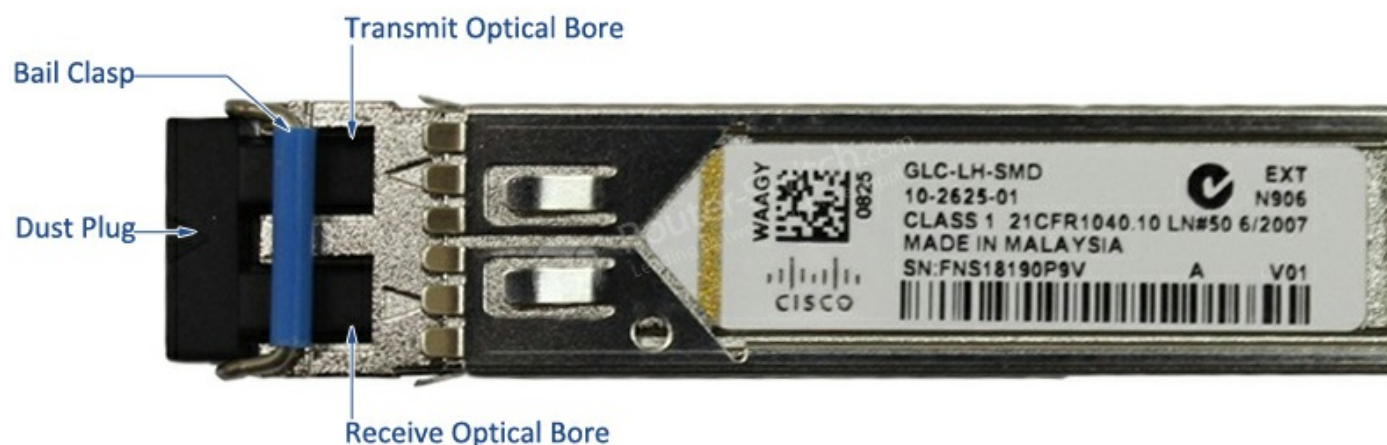


## Overview

Cisco GLC-LH-SMD 1000BASE-LX/LH SFP is made for Both Multimode and Single-Mode Fibers.

The 1000BASE-LX/LH SFP, compatible with the IEEE 802.3z 1000BASE-LX standard, operates on standard single-mode fiber-optic link spans of up to 10 km and up to 550 m on any multimode fibers. When used over legacy multimode fiber type, the transmitter should be coupled through a mode conditioning patch cable. 1300-nm wavelength, extended operating temperature range and DOM support, dual LC/PC connector.

This Figure shows the appearance of GLC-LH-SMD.



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<br>(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<br>(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<br>(GLC-ZX-SM)<br>(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.

Get more information

Do you have any question about the GLC-LH-SMD?

Contact us now via [Live Chat](#) or [sales@router-switch.com](mailto:sales@router-switch.com).

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)                               |
|                                 |                 |            | 50             | 400 (400/400)                | 500 (1,640 ft)                             |
|                                 |                 |            | 50             | 500 (OM2)                    | 550 (1,804 ft)                             |
|                                 |                 |            | 50             | 2000 (OM3)                   | 1000 (3281 ft)                             |
| 1000BASE-LX/LH                  | 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<br>(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)                         |

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.

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

\*\*\*Specified at transmission wavelength.

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