HUAWEI eKit

Huawei S-SFP-GE-LH40-SM1550 Optical Module Datasheet

Gigabit eSFP Single-mode Optical Module | 1550 nm | LC | 40 km

Gigabit Ethernet long-reach optical transceiver

Product Overview

The S-SFP-GE-LH40-SM1550 (part number 02317347) is a Gigabit Ethernet optical module in the eSFP form factor. It is listed by Huawei with a non-standard application standard, operates at a center wavelength of 1550 nm over single-mode fiber, and uses an LC connector. The module supports digital diagnostic monitoring (DDM) and has a working case temperature range of 0°C to 70°C.

Product Highlights

- Gigabit Ethernet, 1 Gbit/s transmission rate
- 1550 nm center wavelength, single-mode fiber (SMF), LC connector
- Transmission distance up to 40 km on single-mode fiber
- Digital diagnostic monitoring (DDM) supported
- Working case temperature range: 0°C to 70°C (32°F to 158°F)
- Hot-swappable eSFP form factor

Usage Notes

- Optical modules must be certified for use on Huawei S switches. Non-certified modules cannot ensure transmission reliability and may affect service stability.
- Two interconnected optical modules must be of a matching type (same rate and wavelength) and use single-mode fiber; the transmit optical power of one end must be within the receive range of the other end.
- The transmit power of a long-distance module can exceed the overload power of the receiver. If the fiber is too short, use an optical attenuator to reduce the receive power on the remote module; otherwise it may be burnt.

Source: Huawei S5700 Series Ethernet Switches Hardware Description (V200), Issue 66 (2025-09-30), section 11.6.4 S-SFP-GE-LH40-SM1550, Table 11-10. The information in this document is subject to change without notice. Huawei and other Huawei trademarks are trademarks of Huawei Technologies Co., Ltd.

Product Specifications

Basic Information

Item	Value
Module name	S-SFP-GE-LH40-SM1550
Part Number	02317347
Model	S-SFP-GE-LH40-SM1550
Form factor	eSFP
Application standard	Non-standard
Connector type	LC
Optical fiber type	SMF
Working case temperature [°C(°F)]	0°C to 70°C (32°F to 158°F)
Digital diagnostic monitoring (DDM)	Supported
Transmission rate [bit/s]	1 Gbit/s
Target transmission distance [km]	Single-mode fiber: 40 km

Transmitter Optical Characteristics

Item	Value
Center wavelength [nm]	1550 nm
Maximum Tx optical power [dBm]	0 dBm
Minimum Tx optical power [dBm]	-5.0 dBm
Minimum extinction ratio [dB]	9 dB

Receiver Optical Characteristics

Item	Value
Rx sensitivity [dBm]	-22 dBm
Overload power [dBm]	-3.0 dBm