Huawei OGSM01880 Optical Module Datasheet

1000BASE-SX eSFP Multimode Optical Module | 850 nm | LC | Industrial Temperature

Gigabit Ethernet short-reach optical transceiver

Product Overview

The OGSM01880 (part number 02310LJG) is a Gigabit Ethernet optical module in the eSFP form factor. It complies with the 1000BASE-SX standard, operates at a center wavelength of 850 nm over multimode fiber, and uses an LC connector. The module supports digital diagnostic monitoring (DDM) and is listed by Huawei among its industrial optical modules, with a working case temperature range of -40°C to +85°C.

Product Highlights

- Standard-compliant 1000BASE-SX, 1 Gbit/s transmission rate
- 850 nm center wavelength, multimode fiber (MMF), LC connector
- Transmission distance up to 0.55 km on OM2 multimode fiber
- Digital diagnostic monitoring (DDM) supported
- Wide working case temperature range: -40°C to +85°C (-40°F to +185°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 use the same standard (here 1000BASE-SX) and multimode fiber of a supported type; the transmit optical power of one end must be within the receive range of the other end.

Source: Huawei S5700 Series Ethernet Switches Hardware Description (V200), Issue 66 (2025-09-30), section 11.6.19 OGSM01880, Table 11-25. 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	OGSM01880
Part Number	02310LJG
Model	OGSM01880
Form factor	eSFP
Application standard	1000BASE-SX
Connector type	LC
Optical fiber type	MMF
Working case temperature [°C(°F)]	-40°C to +85°C (-40°F to +185°F)
Digital diagnostic monitoring (DDM)	Supported
Transmission rate [bit/s]	1 Gbit/s
Target transmission distance [km]	Multimode fiber (with modal bandwidth of 160 MHz*km and diameter of 62.5 um): 0.22 km Multimode fiber (OM1): 0.275 km Multimode fiber (with modal bandwidth of 400 MHz*km and diameter of 50 um): 0.5 km Multimode fiber (OM2): 0.55 km

Transmitter Optical Characteristics

Item	Value
Center wavelength [nm]	850 nm
Maximum Tx optical power [dBm]	-2.5 dBm
Minimum Tx optical power [dBm]	-10 dBm
Minimum extinction ratio [dB]	9 dB

Receiver Optical Characteristics

Item	Value
Rx sensitivity [dBm]	-17.0 dBm
Overload power [dBm]	0 dBm