HUAWEI eKit

Huawei OSX010000 Optical Module Datasheet

10GBASE-LR SFP+ Single-mode Optical Module | 1310 nm | LC | DDM

10 Gigabit Ethernet long-reach optical transceiver

Product Overview

The OSX010000 (part numbers 02318170 and 02313URK) is a 10 Gigabit Ethernet optical module in the SFP+ form factor. It complies with the 10GBASE-LR standard, operates at a center wavelength of 1310 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

- Standard-compliant 10GBASE-LR, 10 Gbit/s transmission rate
- 1310 nm center wavelength, single-mode fiber (SMF), LC connector
- Transmission distance up to 10 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 SFP+ 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 10GBASE-LR) and single-mode fiber; the transmit optical power of one end must be within the receive range of the other end.

Source: Huawei S200, S300, S500, and S600 Series Switches Hardware Description, Issue 06 (2026-03-30), sections 9.10.2 and 9.10.13 OSX010000, Tables 9-57 and 9-68. 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	OSX010000
Part Number	02318170 / 02313URK
Model	OSX010000
Form factor	SFP+
Application standard	10GBASE-LR
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]	10 Gbit/s
Target transmission distance [km]	Single-mode fiber: 10 km

Transmitter Optical Characteristics

Item	Value
Center wavelength [nm]	1310 nm
Maximum Tx optical power [dBm]	0.5 dBm
Minimum Tx optical power [dBm]	-8.2 dBm
Minimum extinction ratio [dB]	3.5 dB

Receiver Optical Characteristics

Item	Value
Rx sensitivity [dBm]	-12.6 dBm
Overload power [dBm]	0.5 dBm