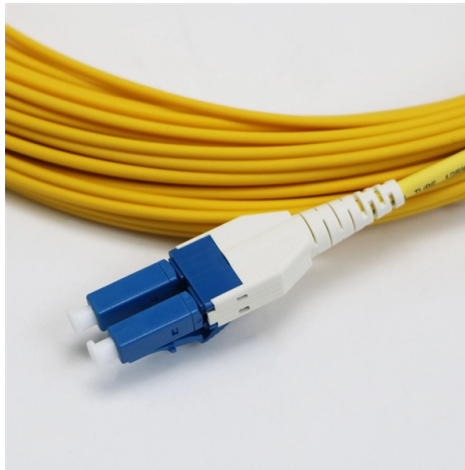


H3C10G Optical Module Optical Power Parameters



AI Overview

The H3C10G optical module, such as the SFP-XG-LX-SM1310, typically operates at 1310nm with a 10G data rate and features optical transmit power ranging from -8.2 dBm to -3 dBm and receiver sensitivity around -14.4 dBm. Key Optical Power Specifications:

- Wavelength:** 1310 nm for standard single-mode modules (SFP-XG-LX-SM1310) suitable for long-distance transmission up to 10 km over G.652 single-mode fiber.
- Transmit Optical Power (Tx):** Typically ranges from -8.2 dBm to -3 dBm, ensuring sufficient signal strength for reliable 10G links.
- Receiver Sensitivity (Rx):** Around -14.4 dBm, allowing the module to detect weak incoming signals while maintaining low bit error rates.
- Optical Power Budget:** The difference between Tx and Rx levels provides a margin to accommodate fiber loss and connector insertion loss, supporting stable links over distances up to 10 km.
- Digital Optical Monitoring (DOM):** Many H3C 10G modules include DOM per SFF-8472, enabling real-time monitoring of transmit power, received power, laser bias current, temperature, and supply voltage.

Additional Considerations:

- Module Type:** H3C10G modules are SFP+ form factor, compliant with IEEE 802.3ae 10GBASE-LR/LW standards, and support LC duplex connectors.
- Link Distance:** Classified as long-range (LR), typically supporting up to 10 km over single-mode fiber, with optical power levels designed to overcome fiber attenuation and dispersion.
- BIDI Modules:** For bi-directional modules (e.g., SFP-XG-LX-SM1330-BIDI), separate wavelengths are used for transmit and receive paths, and modules must be paired correctly to maintain optical power balance.
- Compliance:** H3C optical modules are Class 1 laser products, meeting IEC-60825 and FDA/CDRH safety standards.
- Practical Implications:** When deploying H3C10G optical modules, ensure that the transmit power exceeds the minimum receiver sensitivity after accounting for fiber and connector losses.

Article Content

10GBase BIDI Spec Sheet

Optical Characteristics (Condition: Ta=TOP) ... Absolute Maximum Ratings (TC=25°C)
... Recommend Operation Environment ... Mechanical Drawing

NVIDIA Mellanox MMA2P00-AS Data Center Optical Transceiver

Discover the details of NVIDIA Mellanox MMA2P00-AS Data Center Optical Transceiver Product Launch & Key Feature Highlights at Hong Kong Starsurge Group Co., Limited, a leading

City product details-LINK-PP

Uzbekistan H3C C30 DWDM-SFP10G-53.33-40-I Compatible LS-DW3010-40I SFP+ 10G DWDM 1553.33nm 100GHz 40km DOM Duplex LC/UPC SMF Optical Transceiver Module (Industrial)

Nokia 3HE11023AAAA01 10GBASE-SR SFP+ Optical Transceiver

The Nokia 3HE11023AAAA01 is a genuine original 10GBASE-SR SFP+ short-range optical transceiver, manufactured by Finisar for Nokia. Designed for high-speed 10 Gigabit Ethernet networks, this

SFP-XG-LX-SM1310 H3C Compatibility Guide for 10G Networks

? Overview of SFP-XG-LX-SM1310 Optical Transceiver The SFP-XG-LX-SM1310 is a single-mode 10G optical module designed for long-distance network links. It provides reliable performance across

FR 10 Gigabit SFP+ 10G Optical Module Single-Mode 1310nm Multi

FR 10 Gigabit SFP+ 10G Optical Module Single-Mode 1310nm Multi-Mode 850nm Dual-Fiber LC 300m SR 3Y Warranty Factory Direct Sales

H3C DWDM-SFP10G-44.53-80 10G DWDM SFP

The module is fibre transceivers for a wide variety of switches, routers, and other equipment. It allows enterprises and service providers to provide scalable and

H3C SFP-XG-LX-SM1330-BIDI Optical Module Sample Test Report

H3C offers the SFP-XG-LX-SM1330-BIDI optical module, which supports 10G Ethernet transmission up to 10 km over single-mode fiber. Moduletek Laboratory has tested samples of this

How To View Optical Transceiver Information On Huawei Switches

Optical transceivers are widely applied in switches, network cards, routers and other communication devices. Checking transceiver parameters allows users to monitor real-time

Sfp-xg-lx-sm1310-e-c Datasheet

Digital optical monitoring (DOM) support is also present to allow access to real-time operating parameters. This transceiver is Trade Agreements Act (TAA) compliant.

H3C Products Catalogue

H3C FS5500V2-EI series switches support a new generation of optical and electrical combined interfaces and provide 300m PoE++ and 1000m PoE+ through hybrid copper-fiber cables, meeting

H3C SFP-XG-SX-MM850-A 10GBASE-SR SFP+ Transceiver 850nm

Featuring low power consumption and high speed, this 10G SFP+ transceiver is ideal for data centres, enterprise wiring closets, service provider transport applications, Radio & Baseband Units, etc.

Somali 100G Optical Module For Sale Buyers & Importers ...

Sell Somali 100G Optical Module For Sale in bulk to verified buyers and importers. Connect with businesses actively looking to buy wholesale Somali 100G Optical Module For Sale at best prices.

H3C SFP-XG-LX-SM1310-D Datasheet

H3C SFP-XG-LX-SM1310-D Compatible 10GBASE-LR SFP+ Optical Transceiver Module (SMF, 1310nm, 10km, LC, DOM) Product Specifications ... Contact Us: Email: sales@compufox (305)

SFP-XG-LX-SM1310 H3C Compatibility Guide for 10G Networks

Key technical parameters include: This table provides a concise view of the module's capabilities, highlighting its suitability for standard 10G SFP+ single-mode deployments. The optical power range

Alcatel-Lucent (Nokia) 3HE00564CA 01 10GBASE-LR XFP Optical

The Alcatel-Lucent (Nokia) 3HE00564CA 01 is a genuine original 10GBASE-LR XFP optical transceiver, manufactured by Finisar for Nokia/Alcatel-Lucent. Designed for carrier-grade 10 Gigabit Ethernet

H3C SFP-XG-LX-SM1310-E Datasheet

The SFP+ transceiver module fully complies with SFP+ Multi-Source Agreement (MSA) standards SFF-8431, SFF-8432 and IEEE 802.3ae 10GBASE-LR/LW.

MikroTik 10G Single-Mode SFP+ Module Pair, 10 km | Getic

Digital Diagnostics The S+2733LC10D module pair includes built-in digital diagnostics monitoring, allowing important operating parameters to be checked during use. These diagnostics cover optical

Ethernet Switch Port Types Explained 2026: RJ45,

Optical modules re-time the signal internally, masking electrical impairments. So DAC fails where optics succeed - because optic PHY resets

Ericsson RDH 102 414/35 R1A (RTXM228-525-C25) 10G CWDM SFP+ optical ...

The Ericsson RDH 102 414/35 R1A is a high-performance 10G CWDM SFP+ optical transceiver designed for medium-reach 10Gbps fiber communications in telecom and wireless infrastructure

Contact Us

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