

2km optical module parameters



Overview

The SFP transceivers are high performance, cost effective modules supporting 155Mbps data-rate and 2km transmission distance with MMF. The transceiver consists of three sections: a FP laser transmitter, a PIN photodiode integrated with a trans-impedance preamplifier (TIA) and MCU. This product is a 400Gb/s Quad Small Form Factor Pluggable-double density (QSFP-DD) optical module designed for 2km optical communication applications. The module converts 8 channels of 50Gb/s (PAM4) electrical input data to 4 channels of CWDM optical signals, and multiplexes them into a single. Optical modules are crucial for today's communication systems as they convert electrical signals into light signals for rapid data transfer. In today's data centers, the QSFP28 CWDM4 optical module, with its unique advantages, is increasingly being chosen by data. bit Ethernet links over 2km single mode fiber. The integrated GearBox in module converts the 8 channels of 53.



Article Content

Cisco QDD-2X400G-FR4 Compatible 800GBASE-2FR4 QSFP-DD PAM4 2km

Cisco QDD-2X400G-FR4 Compatible 2x 400G FR4 QSFP-DD 800G transceiver module supports a max data rate of 850Gbps up to 2km over single-mode fiber (SMF) with dual duplex LC connectors. The

Explanation of Optical Module Parameters

Considering that some newcomers to optical modules may not understand the letters on the optical module or the specific meanings of the parameters on the optical module, the following is

400GBASE-FR4 QSFP-DD 1310nm 2km Transceiver Datasheet | FS

To minimize the optical dispersion in the long-haul system, single-mode fiber (SMF) has to be applied in this module. Host FEC is required to support up to 2km fiber transmission The product is designed

400GE QSFP-DD FR4 2km Optical Transceiver Module

DESCRIPTIONS GQD-SPO401-FR4C is a transceiver module designed for 2km optical communication applications, and it is compliant to 100G Lambda MSA standard. This module can convert 8-channel

How to Understand the Performance Parameters of Optical Modules ...

The optical module is a core component in optical fiber communication systems, and its performance parameters directly impact the transmission rate, stability, and reliability of the entire

QSFP-DD Price Guide 2026: 400G/800G Costs & TCO Analysis

QSFP-DD price guide with 400G/800G module costs, OEM vs third-party comparison, volume discounts, and 3-year TCO analysis for data center buyers.

Calculating Optical Fiber Latency

How to Calculate Optical Fiber Latency: this technical article from M2 Optics breaks down how optical fiber latency is calculated.

OC-48 BiDi SFP 2km Side B | Single Fiber | EDGEOPTIC

EDGEOPTIC OC-48 BiDi SFP Side B: 2km SMF, 1550/1310nm wavelengths, 8dB link budget, 100M-2.67G rates. LC/UPC connector, 0-70°C. Pair with Side A.

100M/155M SFP 1310nm 2km Optical Transceiver

All modules satisfy class I laser safety requirements. The transceivers are compatible with SFP Multi-Source Agreement (MSA) and SFF-8472. For further information, please refer to SFP MSA. The

What Are the Key Parameters of Optical Modules

Understand the key parameters of optical modules, including transmission rate, distance, wavelength, and fiber compatibility, for better

2.5GBASE-BX BiDi SFP 2km Short-Reach Optical Transceiver

The 2.5GBASE-BX BiDi SFP is a hot-swappable SFP BiDi transceiver module designed for 2.5Gb/s duplex optical data communications. Provide a transmission distance of 2 km over a

Fiberworks Data Sheet

DESCRIPTION The SFP-155M transceiver family are small form factor pluggable modules for bi-directional serial optical data communications such as SONET/SDH OC-3/STM-1 or Fast Ethernet.

100Gb/s QSFP28 PSM4 2km Optical Transceiver Module

It integrates four data lanes in each direction with 104 Gbps bandwidth. Each lane can operate at 26Gbps up to 2km over G.652 SMF. These modules are designed to operate over singlemode fiber

2.5G STM-16/OC48 80km CWDM SFP Transceiver

Buy 2.5G STM-16/OC48 80km CWDM SFP Optical Transceiver from Manufacturer at Affordable Factory Price, 5-Year Warranty & Money-back Guarantee.

What are the Main parameters of the optical transceiver modules ...

Currently, there are three main types of optical wavelengths commonly used in optical modules: the 850 nm band, the 1310 nm band, and the 1550 nm band. • 850nm band: mostly used

10GBASE-LRM 2KM SFP+ Transceiver Datasheet | FS

Description FS' SFP-10GLRM2-31 is a very compact 10Gb/s optical transceiver module for serial optical communication applications at 10Gb/s. The SFP-10GLRM2-31 converts a 10Gb/s serial electrical

OC-48/STM-16 SFP 2km SMF | Metro | EDGE OPTIC

Our OC-48/STM-16 SFP 2km transceiver delivers reliable high-speed SONET/SDH connectivity for metro networks. Supporting 2km transmission over single-mode

Single Lambda 100G QSFP28 Modules Overview

Explore the features and applications of Single Lambda 100G QSFP28 modules and learn how these modules enhance high-speed data transmission in various

400G QSFP-DD FR4 2km EML

Description This Giglight GQD-SPO401-FR4X product is designed for 2km optical communication applications. The module converts 8 channels of 50Gb/s (PAM4) electrical input data to 4 channels

What are the optical module parameters?

The optical module realizes the conversion of photoelectric signals in an optical communication network and is one of the main components of

400GBASE-FR4 QSFP-DD 1310nm 2km Transceiver Datasheet | FS

The module converts 8 channels of 50Gb/s (PAM4) electrical input data to 4 channels of CWDM optical signals, and multiplexes them into a single channel for 400Gb/s optical transmission.

2km,100G QSFP28 PSM4 1310nm Optical Transceiver Module

Compatible 100GBASE QSFP28 PSM4 Optical Transceiver Module (SMF, 1310nm, 2km, MTP/MPO, DDM) The Compatible QSFP28 Optical Transceiver Module is designed for 100GBASE Ethernet

JFOPT QSFP-DD 400G FR4 Transceiver

The JFOPT QSFP-DD 400G FR4 Transceiver enables 2km transmission over SMF using 4x100G CWDM technology (1271/1291/1311/1331nm). Converting 8x50G PAM4 electrical signals to 400Gbps

25G SFP28 DWDM 2KM Optical Transceiver | FIBERSTAMP

This product is a 25G SFP28 DWDM transceiver designed for optical communication compliant with 25G standard. Its high performance cooled DWDM EML transmitter and high sensitivity PIN receiver

2km Transmission Solution With QSFP28 CWDM4 Optical Modules

Explore yxfiber 100G QSFP28 CWDM4 optical module for 2km transmission over single mode fiber. Low cost solution with uncooled CWDM DFB laser, FEC support, and low power

1.6Tb/s Twin-port XDR OSFP 2xFR4 1310nm 2km Optical Transceiver

SCL is defined as the serial interface clock signal and SDA as the serial interface data signal. Both signals are open-drain and require pull-up resistors to +3.3V on the host. The pull-up

1000BASE-SX SFP 1310nm 2km Transceiver Datasheet | FS

Description The SFP1G-SX-31 series multi-mode transceiver is small form factor pluggable module for bi-directional serial optical data communications such as Ethernet and SDH/SONET. It is with the

400Gb/s OSFP56 FR4 2km SMF Optical Transceiver

For operations beyond the recommended operating conditions, optical and electrical characteristics are not defined, reliability is not implied, and such operations for a long time may damage the module.

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