

IBM 90Y9412 Datasheet



IBM 90Y9412 90Y9410, 90Y9411 10Gbps SFP+ LR 1310nm 10km Transceiver

90Y9412

The IBM 90Y9412 is a high performance and cost-effective SFP+ transceiver module supporting data-rate of 10.3125Gbps (10GBASE-LR) or 9.953Gbps (10GBASE-LW) over single mode optical fiber. This transceiver is programmed to be compatible with a wide range of IBM network equipment such as 10 Gigabit Ethernet (10 GbE) Switches, Routers, Network Interface Cards (NICs) and Media Converters. This transceiver is manufactured with high-quality components and tested strictly to meet or exceed original manufacturer specifications and optimized for data center networks applications. The SFP+ transceiver module fully complies with SFP+ Multi-Source Agreement (MSA) standards SFF-8431, SFF-8432 and IEEE 802.3ae 10GBASE-LR/LW. Additionally, this SFP+ transceiver module also provides a unique enhanced digital diagnostic monitoring interface(DDMI) per SFF-8472, which providing real-time monitoring of the transceiver optics temperature, laser bias current, optical power, received optical power and transceiver optics supply voltage. The transceiver is a Class 1 laser product complies with FDA/CDRH and IEC-60825 standards.

Features

- Hot-pluggable SFP+ footprint
- Electrical interface compliant to SFF-8431
- Compliant with SFF-8472
- 10Gb/s serial optical interface compliant to 802.3ae 10GBASE-LR
- 1310nm DFB transmitter, PIN photo-detector
- Distance up to 10km on single mode fiber
- LC Duplex connector

- Built-in digital diagnostic functions
- Single 3.3V power supply
- Metal enclosure, for lower EMI
- ROHS compliant and lead-free

Specifications

- Manufacturer: IBM
- Part Numbers: 90Y9412, 90Y9410, 90Y9411
- Form Factor: SFP+
- Max Data Rate: 10.3125Gbps
- Wavelength: 1310nm
- Max Cable Distance: 10km
- Connector: Duplex LC
- Media: SMF
- Transmitter Type: DFB
- Receiver Type: PIN
- TX Power: -8.2~0.5dBm
- Receiver Sensitivity: <-14.4dBm
- Powerbudget: 6.2dB
- Receiver Overload: 0.5dBm
- Power Consumption: ≤ 1W
- Extinction Ratio: >3.5dB
- DDM/DOM: Supported
- Commercial Temperature Range: 0 to 70°C (32 to 158°F)

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