

Nokia 472948A-101 Datasheet



Genuine Nokia 472948A.101 9.8G 1.4km 1310nm SFP+ Transceiver Module MTRS-1E21-04

472948A-101

The Nokia 472948A.101 is a high performance, cost effective modules, which is supporting Multi Rate 1.25-10.709Gbps, and transmission distance up to 1.4km on SM fiber. The transceiver consists of two sections: The transmitter section incorporates a laser driver and a 1310nm FP laser. The receiver section consists of a PIN photodiode integrated with a transimpedance preamplifier (TIA) and a Limiting Amplifier. The module is hot pluggable into the 20-pin connector. The high-speed electrical interface is base on low voltage logic, with nominal 100 Ohms differential impedance and AC coupled in the module.

The optical output can be disabled by LVTTTL logic high-level input of TX_DIS. Transmit Fault (Tx_Fault) is provided to indicate that the module transmitter has detected a fault condition related to laser operation or safety. Loss of signal (RX_LOS) output is provided to indicate the loss of an input optical signal of receiver. A serial EEPROM in the transceiver allows the user to access transceiver monitoring and configuration data via the 2-wire SFP Management Interface. This interface uses a single address, A0h, with a memory map divided into a lower and upper area. Basic digital diagnostic (DD) data is held in the lower area while specific data is held in a series of tables in the high memory area.

Features

- Genuine Nokia 472948A.101

- Up to 1.4km transmission on SMF
- Support Multi Rate 4.9152Gbps to 10.3125Gbps
- 1310nm FP laser and PIN receiver
- SFI electrical interface
- 2-wire interface for integrated Digital Diagnostic monitoring
- SFP+ MSA package with duplex LC connector
- Hot pluggable
- Very low EMI and excellent ESD protection
- +3.3V power supply
- Power consumption less than 1.0W
- Operating case temperature: -40~+85°C

Applications

- High-speed storage area networks
- Computer cluster cross-connect
- Custom high-speed data pipes
- LTE optical repeater application

Standards

- Compliant with Fiber Channel(FC)-Standard INCITS 352
- Compliant with IEEE 802.3ae-2002
- Compliant with FCC 47 CFR Part 15, Class B
- Compliant with FDA 21 CFR 1040.10 and
- 1040.11, Class I except for deviations pursuant

Specifications

- Part Number: 472948A.101
- MPN: MTRS-1E21-04

- Form Factor: SFP+
- Data Rate (max): 9.8G
- Connector: Dual LC
- Wavelength: 1310nm
- Distance: 1.4km
- Transmitter: FP
- Receiver: PIN
- Diagnostics: Digital
- Voltage Supply: 3.3
- Operating Temperature: -40°~ 85°C

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