SFP-10G-SR- NW

10Gbps SFP+ Optical Transceiver, 300m Reach

Features

- Optical interface compliant to IEEE 802.3ae 10GBASE-SR
- Electrical interface compliant to SFF
- Hot Pluggable
- 850nm VCSEL transmitter, PIN photo-detector
- Maximum link length of 300m on 2000MHz/km MMF
- Operating case temperature: 0 to 70 °C
- Low power consumption
- All-metal housing for superior EMI performance
- Advanced firmware allow customer system encryption information to be stored in transceiver
- Cost effective SFP+ solution, enables higher port densities and greater bandwidth

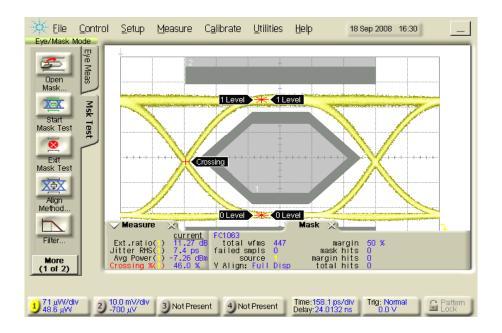
Applications

- 10GBASE-SR at 10.3125Gbps
- 10GBASE-SW at 9.953Gbps
- Other optical links

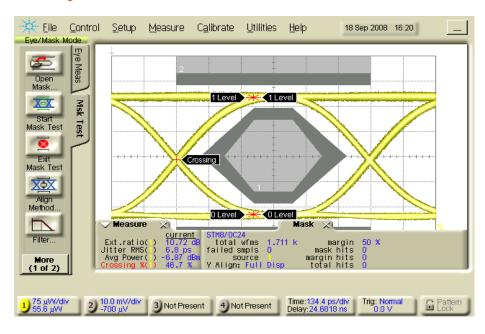
Product Description

SFP-10G-SR-NW 850nm VCSEL SFP+ transceiver is designed to transmit and receive optical data over 50/125 µm or 62.5/125 µm multimode optical fiber. The SFP+ SR module electrical interface is compliant to SFI electrical specifications. The transmitter input and receiver output impedance is 100 Ohms differential. Data lines are internally AC coupled. The module provides differential termination and reduce differential to common mode conversion for quality signal termination and low EMI. SFI typically operates over 200 mm of improved FR4 material or up to about 150mmof standard FR4 with one connector. The transmitter converts 10Gbit/s serial PECL or CML electrical data into serial optical data compliant with the 10GBASE-SR standard. An open collector compatible Transmit Disable (Tx Dis) is provided. The receiver converts 10Gbit/s serial optical data into serial PECL/CML electrical data. An open collector compatible Loss of Signal is provided. Rx LOS when high indicates an optical signal level below that specified in the relevant standard. The Rx LOS contact is an open drain/collector output and shall be pulled up to Vcc Host in the host with a resistor in the range 4.7-10 $k\Omega$, or with an active termination. Power supply filtering is recommended for both the transmitter and receiver. The Rx LOS signal is intended as a preliminary indication to the system in which the SFP+ is installed that the received signal strength is below the specified range. Such an indication typically points to non-installed cables, broken cables, or a disabled, failing or a powered off transmitter at the far end of the cable.

NW Optical Transmitter Eye Diagrams



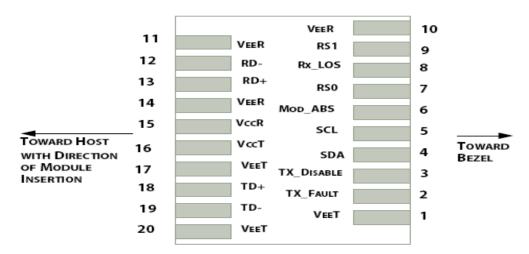
NW Transmitter Eye Mask



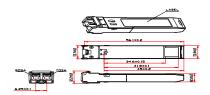
SFP-10G-SR NW EEPROM Section

The NW optical transceiver contains an EEPROM NW. It provides access to sophisticated identification information that describes the transceiver's capabilities, standard interfaces, manufacturer, and other information.

NW Pin Assignment:



NW Mechanical Dimensions



NW Ordering information: E_mail: sales@networkwide.co.uk

Part Number	Product Description
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