OET1540_R2

OET 1540
Ethernet to Fiber Transceiver (switch) - CWDM

Technical Specifications

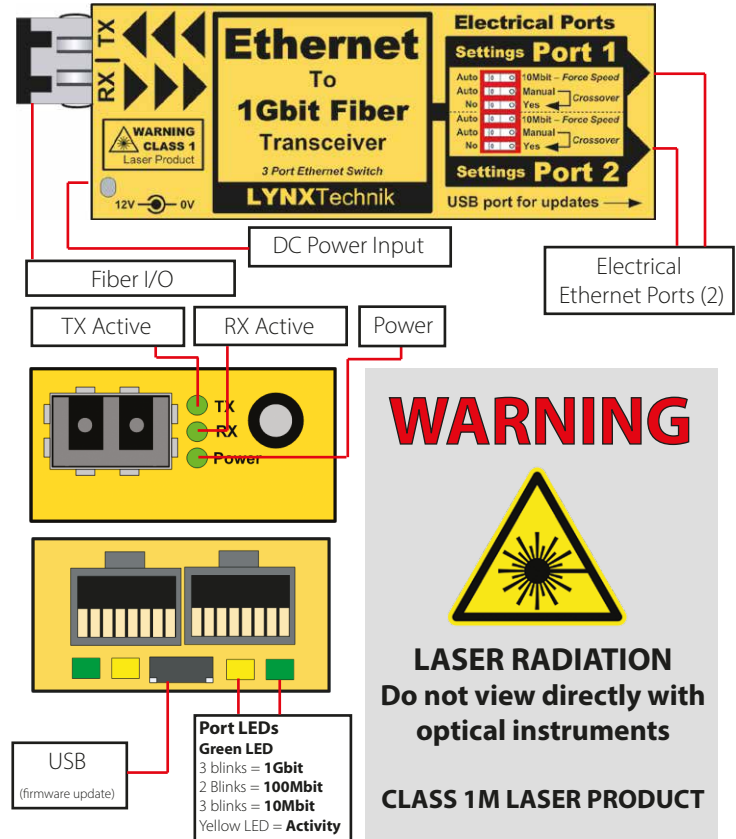|	
Ethernet	2 x Ethernet ports, RJ 45 Connectors. 10 BaseTUTP category 3,4 or 5 cable up to 328ft/100m (2 pairs) 100 BaseTXUTP category 5 cable up to 328ft/100m (2 pairs) 1000 BaseTXUTP category 5 cable up to 164ft/50m (4 pairs)
	Auto detect bit rate (10/100/1000), or force to 10Mbit for each port (selectable)
	Automatic crossover detection or force manually for each port (selectable)
	Port speed / activity LED indication (next to Ethernet port)
Fiber Optic	**1 x fiber optic input** (Range 1270-1610nm, Sensitivity -3dBm to -23dBm) **1 x fiber optic output** (power -5 dBm to 0 dBm) CWDM (ITU-T G.694.2) 18 selectable wavelengths Duplex (Single mode) using LC/PC Connections
	IEEE 802.3z (1000BASE-X Gbit/s Ethernet over Fiber at 1 Gbit/s (125 MB/s)
	Fiber TX active and RX active LEDs on side of module
	Max. distance 40km (24.8 miles - Singlemode)
Power	+12VDC power supply (included) (supports external power input from 9 - 14 VDC) Power LED on side of module

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Ethernet To 1Gbit Fiber Transceiver
3 Port Ethernet Switch
LYNXTechnik

WARNING CLASS 1 Laser Product

12V ⊖ 0V

Electrical Ports
Settings **Port 1**
Auto / 10Mbit – Force Speed
Auto / Manual / Crossover
No / Yes
Auto / 10Mbit – Force Speed
Auto / Manual / Crossover
No / Yes
Settings **Port 2**
USB port for updates

DC Power Input

Electrical Ethernet Ports (2)

Fiber I/O

TX Active · RX Active · Power

TX
RX
Power

USB
(firmware update)

Port LEDs
Green LED
3 blinks = **1Gbit**
2 Blinks = **100Mbit**
3 blinks = **10Mbit**
Yellow LED = **Activity**

WARNING

LASER RADIATION
Do not view directly with optical instruments

CLASS 1M LASER PRODUCT

Connections

The module functions as a 3 port Ethernet switch with 2 standard RJ45 electrical Ethernet ports and a fiber Ethernet port using LC/PC optical connections. Note a separate RX and TX fiber link is needed between locations. (LC duplex fiber connector shown below)
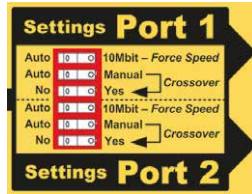

*Note

The module is designed for use with SMF (Singlemode) fiber cable. This module is CWDM compatible and must be used with Singlemode cable (do not attempt to use Multimode)

Operation

The module maintains a constant 1Gbit fiber communication speed regardless of the speed of the 2 electrical ports. The electrical Ethernet ports can be configured independently using the module dip switch if required. This facilitates the use with older legacy electrical networks.

The electrical port speeds can be set to automatic mode (10/100/1000) or forced to 10Mbit if required. It is also possible to configure automatic or manual crossover for the electrical ports (forced manual crossover is sometimes needed for older networks)

This module is a CWDM version and is configured for the wavelength specified when ordered. The wavelength is indicated with a white sticker on the top of the module above the fiber connections.

Note. If fiber RX LED is OFF this indicates no signal is present, signal to weak or is a non a valid signal.

Power

The module requires a 12V DC power input and a LED is provided to confirm power is connected. A power supply is provided, but if applying your own power, please provide a clean 12V DC power source. Module power consumption is approx 250mA (2.8VA)

Power Lead Strain Relief

The module has a small hole in the case located above the power connection to prevent the power lead being accidentally pulled out. Use the supplied tie-wrap and secure the lead as shown below.
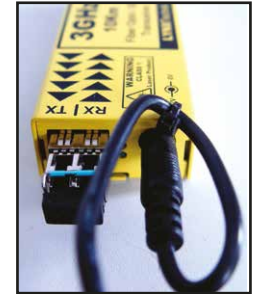
Optional Mounting Bracket

The optional RFR 1001 mounting bracket can be used to permanently mount the module on any flat surface or on 19" rack rails.