



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 +2dBm)
 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)

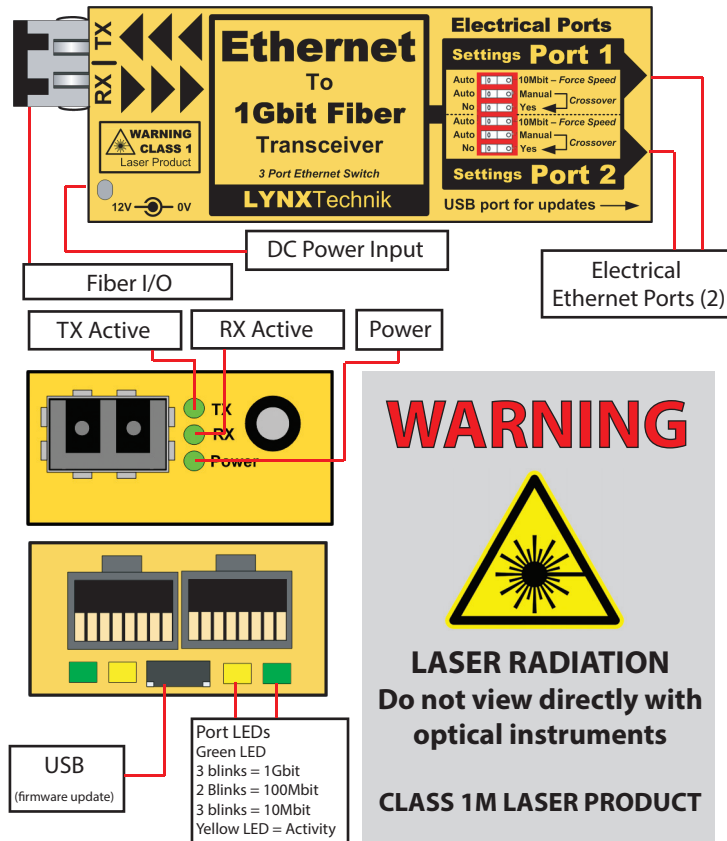
Power +12VDC power supply (included)
 (supports external power input from 9 - 14 VDC)
 Power LED on side of module

We are constantly adding additional yellobrik modules.
 Please visit our website for the latest product updates.

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OET 1540

Ethernet to Fiber Transceiver (switch) - CWDM



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)



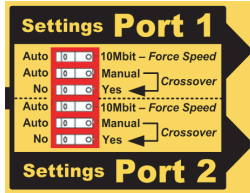
*Note

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.

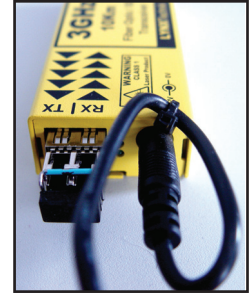
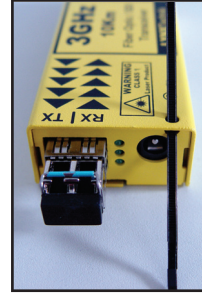
Note. If fiber RX LED is OFF this indicates no signal is present, signal too weak or is a non a valid signal.

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.

