OET1510R4

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Quick Reference

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 328ft/100m (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 (TX) 1 x fiber optic output (RX) Duplex using LC/PC Connections
	IEEE 802.3z (1000BASE-X Gbit/s Ethernet over Fiber at 1 Gbit/s (125 MB/s)
	Singlemode Version TX wavelength 1310nm, power -3dBm RX input range 1260nm to 1620nm, sensitivity -3dBm to -21dBm Max distance 10km (6.2miles)
	Multimode Version TX wavelength 850nm, power -2dBm to -7dBm RX input 850nm sensitivity 0dBm to -15dBm Max distance approx 550m (1804 feet)
	Fiber TX active and RX active LEDs on side of module
Power	+12VDC @ 2.2W nominal - (supports 7 - 15VDC input range)

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

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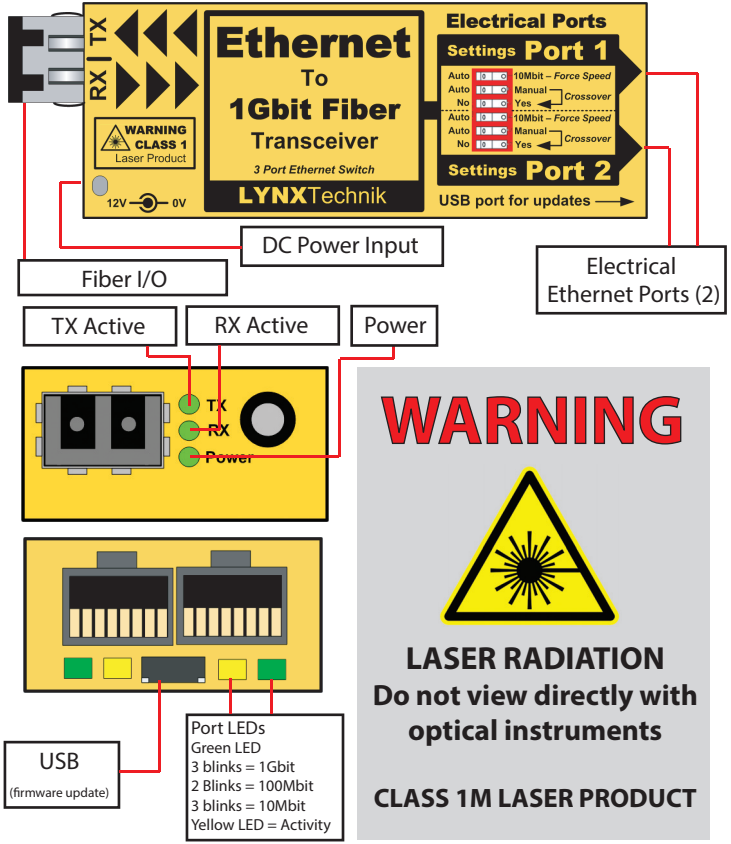
OET 1510

Ethernet to Fiber Transceiver (switch)



Connections

The module functions as a 3 port Ethernet switch with 2 standard RJ45 electrical Ethernet ports and two fiber Ethernet ports using LC optical connections. **Note** a separate RX and TX fiber link is needed between locations. Two versions of this module are available:

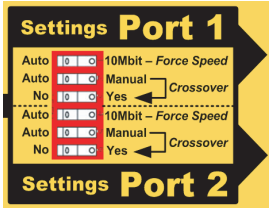
OET 1510 - which uses a Singlemode 1310nm SFP for up to 10km
OET 1510 MM - which uses a Multimode 850nm SFP for up to 550m

Please use the correct type of fiber cable with the module.

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)



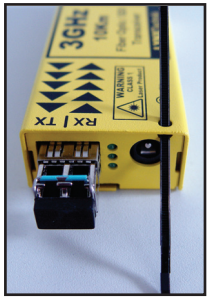
Note. If fiber RX LED is OFF this indicates no signal is present, signal to weak or is a non a valid signal.

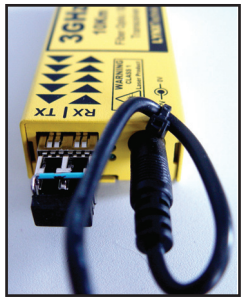
Power

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 7-15V DC power input (12VDC nominal). Power consumption is approx 2.2W

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.