OBD 1510 E
Ethernet to Fiber Bidirectional Transceiver

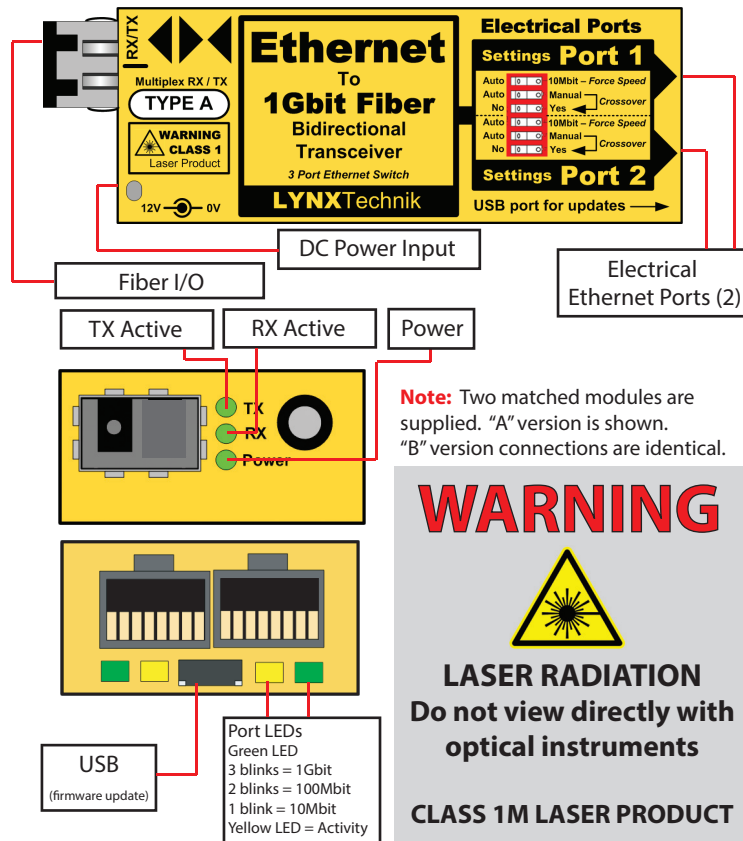## Technical Specifications

Ethernet	2 x Ethernet ports, RJ45 Connectors. 10 BaseT UTP category 3,4 or 5 cable up to 328ft/100m (2 pairs) 100 BaseT XUTP category 5 cable up to 328ft/100m (2 pairs) 1000 BaseT XUTP 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 I/O port (bidirectional) Simplex (single mode) using LC/PC connection
	WDM using 1310nm and 1550nm wavelengths Optical budget = 18dB
	Fiber TX active and RX active LEDs on side of module
	Max. distance 10km (6.2 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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Ethernet To 1Gbit Fiber Bidirectional Transceiver
3 Port Ethernet Switch
LYNXTechnik

Electrical Ports
Settings **Port 1**
Settings **Port 2**
USB port for updates →

TYPE A
WARNING CLASS 1 Laser Product
12V 0V

Fiber I/O
DC Power Input
Electrical Ethernet Ports (2)

TX Active
RX Active
Power

Note: Two matched modules are supplied. "A" version is shown. "B" version connections are identical.

USB (firmware update)

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

WARNING

LASER RADIATION
Do not view directly with optical instruments

CLASS 1M LASER PRODUCT

Connections

Two matched modules are supplied an A and B version, these must be used together. Connections are identical for each module. The system uses WDM fiber technology, which allows for bidirectional connectivity over a single dedicated fiber link (closed loop)

The modules function as 3 port Ethernet switches with 2 standard RJ45 electrical Ethernet ports and a fiber Ethernet port using a LC/PC optical connection on each module. Note a single dedicated fiber link is needed between locations. (LC simplex fiber connector shown below)

*Note
The module must be used with SMF (singlemode) fiber cable. Multimode cable does not support WDM and the link will not function.

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)
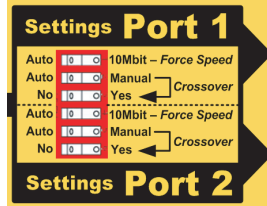

Note. If fiber RX LED is OFF this indicates no signal is present, signal to weak or is a non a valid signal.

Power

Each module requires a 12V DC power input and a LED is provided to confirm power is connected. Power supplies are 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.
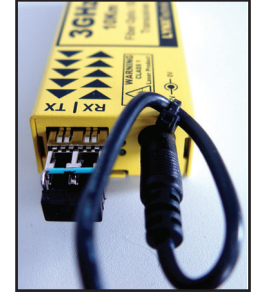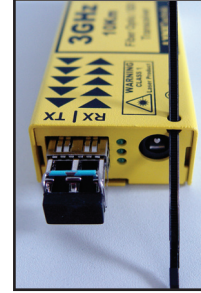
Optional Mounting Bracket

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