yellobrik®
OET 1514

Technical Specifications

Ethernet	2× RJ45 Ethernet ports with activity LEDs
	Supports 10/100/1000Base-T Ethernet over Cat3/4/5 (10 Mbps) or Cat5 (100/1000 Mbps)
	Auto-negotiation for 10/100/1000 Mbps
	Optional forced 10 Mbps mode per port
	Automatic or manual MDI/MDI-X crossover configuration per port
	Cabling up to 100 m / 328 ft
Fiber	1x fiber input, 1x fiber output Duplex LC/PC connectors Single-mode 1310nm, Multi-mode or CWDM
	IEEE 802.3z 1000BASE-X Gbit/s Ethernet over Fiber at 1Gbit/s (125 MB/s)
	TX and RX active LEDs on side of module
Power	+12V DC @ 4.7W nominal - (supports 7 - 22V DC input range) 1x Power LED on side of module
Physical	Size: 140mm x 42mm x 22mm (5.51″ x 1.65″ x 0.86″) incl. connectors Weight: 125g (4.4oz)
Includes	Module, AC power supply, SFP depending on model

Ordering Information

Model	Mode	Type	TX Wavelength	SFP Included
OET 1514	Single	Single	1310nm	Yes
OET 1514 MM	Multi	Short Range	850nm	Yes
OET 1514 CW	Single	Coarse	1270 - 1610nm	No

WARNING
CLASS 1M LASER PRODUCT
LASER RADIATION

Do not view directly with optical instruments

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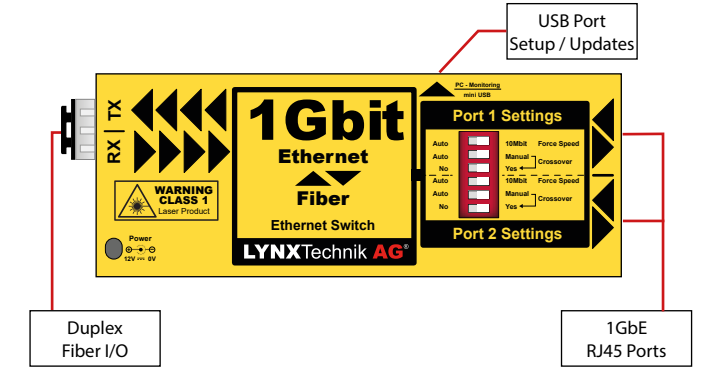
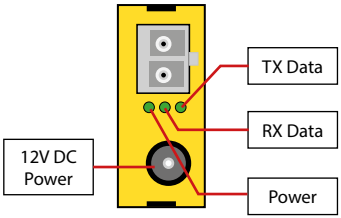
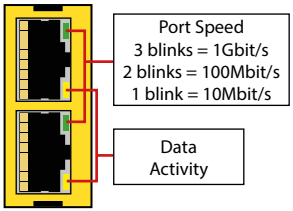
OET 1514
1GbE to Fiber Transceiver (switch)







The OET 1514 is a compact three-port Ethernet switch with two RJ45 ports and one fiber connection, extending 10/100/1000 Ethernet over a 1 Gbit/s optical link. It supports auto-negotiation or fixed 10 Mbit/s operation, configurable via DIP switches. It is compatible with 1310nm single-mode, multi-mode, and CWDM SFPs.

Connections

The module functions as a 3-port Ethernet switch, featuring two RJ45 electrical Ethernet ports and one SFP port for duplex fiber connectivity.

To protect the optical interface from dust and contamination, keep the supplied dust plug installed whenever the fiber connection is not in use. A USB port is provided for firmware updates, configuration, and monitoring. Firmware updates are provided free of charge via yelloGUI and Lynx Centraal.

Operation

The module maintains a constant fiber communication speed independent of the two electrical Ethernet ports. Each electrical port can be independently configured via DIP switch settings, enabling flexible integration with mixed-speed or legacy networks.
Electrical port speed can be set to auto-negotiation (10/100/1000 Mbit/s) or forced to 10 Mbit/s when required. Auto MDI/MDI-X crossover is supported, with optional manual crossover mode for compatibility with older network equipment.

Module LEDs

Power LED	
Green	Device Running
Yellow (blinking)	"Locate Module" function active
Red (blinking)	Hardware Issues
Off	Device Not Powered
TX LED	
Green	Output Signal Active
Off	No Input Signal Detected, No Signal Transmitted (Laser Active)
RX LED	
Green	Valid Signal Received
Green/Red	Incompatible Input Signal
Off	No Signal Detected

Distances

OET 1514 Single-mode 1310nm: up to 10km (12 miles)
OET 1514 MM Multi-mode: up to 550m (1800 feet)
OET 1514 CW Single-mode Coarse Wavelengths: up to 40/80km (25/50 miles)

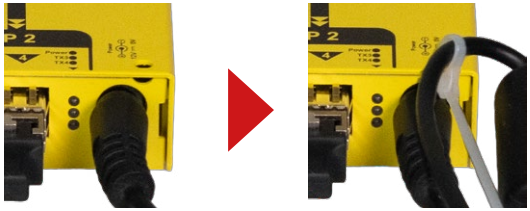
Power

The module requires a 12V DC power input. The LED indicates when power is connected. If using an external power supply, a clean 7–22V DC source is required.

The OET 1514 has a power consumption of 1.7W (including SFP).

Power Lead Strain Relief

Yellobrik modules have a small hole above the power connection to prevent the power lead from being accidentally pulled out. Secure the lead using the supplied tie-wrap as shown below.



Optional Mounting Solutions

The optional RFR 1001 mounting bracket allows the module to be installed on any surface and 19'' rack rails.

The RFR 1200 rack frame can hold up to 14 yellobriks and can provide power redundancy for all installed devices.