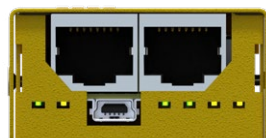
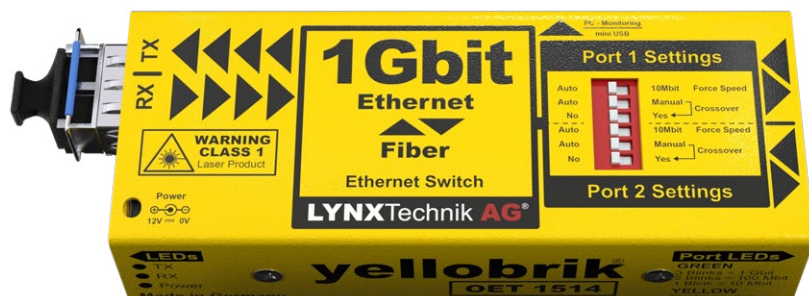


1GbE to Fiber Transceiver (switch)



Features

- Supports standard 1GbE inputs incl. Dante Audio
- Three-port switch (1x Optical, 2x RJ45)
- Automatic port speed detection (10/100/1000)
- Manual setting to force 10Mbit/s on RJ45
- Automatic or manual crossover configuration
- Distances up to 80km (49.7 miles) over CWDM fiber
- Three SFP options: Single-mode (Single and Coarse) and Multi-mode

Description

The OET 1514 is a compact three-port Ethernet switch featuring two standard RJ45 ports and one duplex fiber connection. It is designed to extend 10/100/1000 Ethernet signals over long distances via a constant 1 Gbit/s optical link.

For compatibility with legacy systems, each Ethernet port supports either auto-negotiation (10/100/1000) or a fixed 10 Mbit/s setting. Auto MDI/MDI-X (crossover detection) is available on all ports. These configuration options are easily managed via the onboard DIP switch.

This module includes a mini USB port for real-time monitoring and firmware updates. It supports either single-mode or multi-mode SFP transceivers operating at fixed wavelength, as well as a range of 18 CWDM SFPs for use in multiplexed CWDM environment. CWDM enables flexible wavelength planning, longer distances and scalable fiber deployment. CWDM SFPs are sold separately.

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	1x 1GbE Fiber SFP Duplex LC connectors Single-mode 1310nm, Multi-mode or CWDM IEEE 802.3z (1000BASE-X Gbit/s Ethernet over Fiber at 1 Gbit/s (125 MB/s) TX and RX active LEDs on side of module
Power	+12V DC @ 1.7W without SFP Supports 7 - 22VDC input range Power LED on side of module
Physical	Size 140mm x 42mm x 22mm (incl. connectors) (5.51" x 1.65" x 0.86") Weight 125g (4.4oz)
Ambient	5 - 40°C (41 - 104°F) 90% Humidity (non condensing)
Includes	Module, AC power supply, SFP depending on model

Ordering Information

Model	Mode	Type	TX Wavelength	TX Power	RX Input Range	RX Sensitivity	Distance (up to)	SFP Included
OET 1514	Single-mode	Single	1310nm	-6dBm	1260 - 1580nm	-23dBm	10 km, 6.2 mi	Yes
OET 1514 MM	Multi-mode	Short Range	850nm	-6dBm	840 - 860nm	-16dBm	300 m, 1000 ft	Yes
OET 1514 CW	Single-mode	Coarse	1270 - 1610nm	+2dBm	1260 - 1620nm	-23dBm	40/80 km, 25/50 mi	RJ45 only

Optional Accessories

Rack Frames

This yellobrik can be placed in a rack frame along others to build increasingly complex systems, all monitored and controlled with a rack controller (RCT 1012) and server module (SRV 1000) via a PC or MAC using LynxCentraal.

The RFR 1200 offers additional power redundancy with GPI alert. It automatically closes a connection between the A and B terminals on power failure.

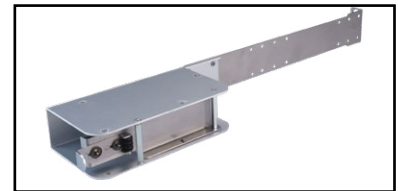
The RPS A100 is a 100W power supply, which can be mounted at the rear end of the RFR 1200 with an RXT 1001 power supply holder for rack frames.



RFR 1200: yellobrik Rack Frame



RPS A100: 100W Power supply



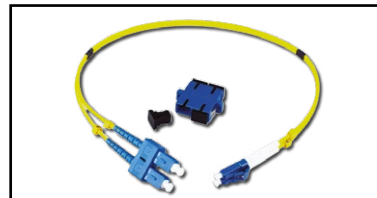
RXT 1001: Power Supply Holder

Fiber Adapter Cables

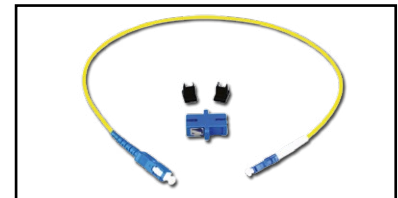
While some of our products offer LC, ST and SC fiber connectors, most SFPs in our product range offer LC fiber connectors.

To still allow the necessary flexibility in a professional setting we offer patch cables to convert LC to ST or SC fiber connections. These patch cables' insertion loss and return loss are manually checked for each individual cable to allow for maximum precision when calculating the optical budget

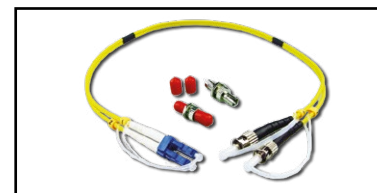
Besides the selection here we offer LC/FC and LC/LC patch cables.



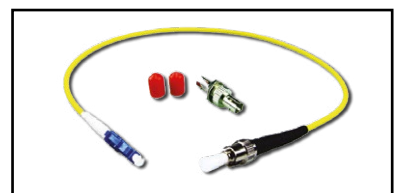
LC/SC Dup: LC/SC Duplex adapter cable



LC/SC Sim: LC/SC Simplex adapter cable



LC/ST Dup: LC/ST Duplex adapter cable



LC/ST Sim: LC/ST Simplex adapter cable

Power Adapter Options

The power requirements of this yellobrik allow for the usage of P-Tap or XLR connection based power sources.

Note: This does not replace the included power supply.



P-TAP 1000

Use with a standard battery P-TAP power source.



XLR 1000

Use with a standard 4 pin XLR camera battery power source.