

10GbE to Fiber Transceiver



Features

- 10GbE or 1GbE pass-through
- Compatible with Dante Audio and ST 2110
- Ethernet to Standard 1310nm and CWDM fiber conversion
- Ethernet to Multi-mode Fiber conversion
- Multi-mode to CWDM Fiber conversion
- Maximum throughput of 20Gbit/s (full duplex)
- Distances up to 40km (25 miles) over single-mode CWDM fiber
- Three SFP options: Single-mode Standard or Coarse and Multi-mode
- Hot swapping and hot plugging

Description

The OET 1910 is a compact Ethernet to Fiber pass-through converter designed to extend 10GbE or 1GbE signals over long distances. The module does not provide bitrate conversion from 1GbE to 10GbE. It is not possible to connect a 1GbE device on one side and a 10GbE on the other.

The OET 1910 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.

Four options are available:

OET 1910: RJ45 to Duplex Standard 1310nm Single-mode fiber

OET 1910 MM: RJ45 to Duplex Multi-mode fiber at 850nm

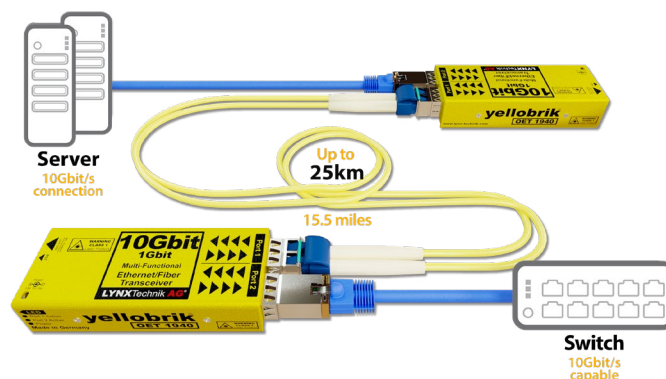
OET 1910 MC: Duplex Multi-mode to Duplex Single-mode CWDM

OET 1910 CW: RJ45 to Duplex Single-mode CWDM (18 SFPs options)

Technical Specifications

SFP Slots	2x 10 Gigabit SFP+ slots (Port 1 & 2) Supports 10GBase-T SFP, 10GBase-X, 1000Base-T IEEE 802.3ae	
Fiber	1x or 2x 10GbE Fiber Transceiver SFPs Duplex LC connectors	
LED	1x Power LED and 2x Signal presence LEDs	
Power	+12V DC @ 4.6W nominal (supports 7 - 15VDC 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	

Application Example



Ordering Information

Model	Mode	Type	Tx Wavelength	Tx Power	Rx Input Range	Rx Sensitivity	Distance (up to)	SFP Included
OET 1910	Single-mode	Standard	1310nm	-1dBm	1260 - 1565nm	-14dBm	20 km, 12.5 mi	Yes
OET 1910 MM	Multi-mode	SR	850nm	-3dBm	840 - 860nm	-11dBm	300 m, 1000 ft	Yes
OET 1910 MC	Multi/Single	SR/CWDM	1270 - 1610nm	+2dBm	See MM & CW	-23dBm	40 km, 25 mi	MM only
OET 1910 CW	Single-mode	CWDM	1270 - 1610nm	+2dBm	1260 - 1620nm	-23dBm	40 km, 25 mi	RJ45 only

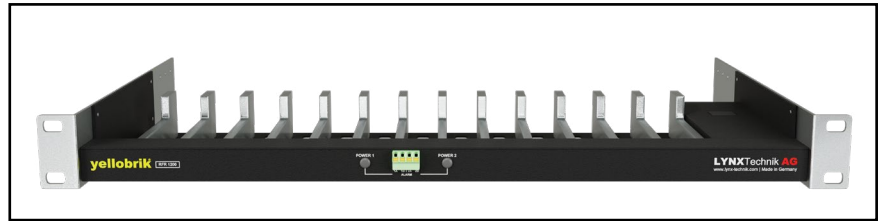
Optional Accessories

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.

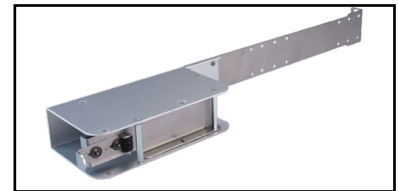
The RPS A100 is a 100W power supply, which can be mounted at the rear end of the RFR 1200 with an RXT 1001 power supply holder for rack frames.



RFR 1200: yellobrik Rack Frame



RPS A100: 100W Power supply



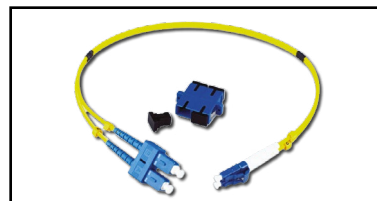
RXT 1001: Power Supply Holder

Fiber Adapter Cables

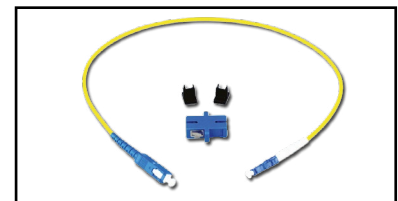
While some of our products offer LC, ST and SC fiber connectors, most SFPs in our product range offer LC fiber connectors.

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

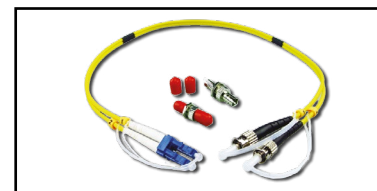
Besides the selection here we offer LC/FC and LC/LC patch cables.



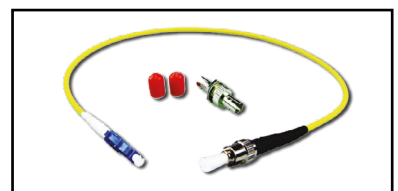
LC/SC Dup: LC/SC Duplex adapter cable



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.