yellobrik® OET 1910

Technical Specifications

10GbE I/O	2x 10GbE SFP+ slots: RJ45 or Duplex Fiber with LC connectors
	OET 1910: RJ45 and Duplex Standard 1310nm Single-Mode OET 1910 MM: RJ45 and Duplex 850nm Multi-mode OET 1910 MC: Duplex 850nm Multi-mode and Duplex CWDM OET 1910 CW: RJ45 and Duplex CWDM Single-mode SFPs.
	Supports 10GBase-T SFP, 10GBase-X, 1000Base-T
	IEEE 802.3ae
LED	1x Power LED, 2x Signal Presence LEDs
Power	+12V DC @ 4.7W nominal - (supports 7 - 15V DC input range)
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 1910	Single	Standard	1310nm	Yes
OET 1910 MM	Multi	SR	850nm	Yes
OET 1910 MC	Both	Std/CWDM	1270 - 1610nm	MM only
OET 1910 CW	Single	CWDM	1270 - 1610nm	RJ45 only

WARNING
CLASS 1M LASER PRODUCT
LASER RADIATION

Do not view directly with optical instruments

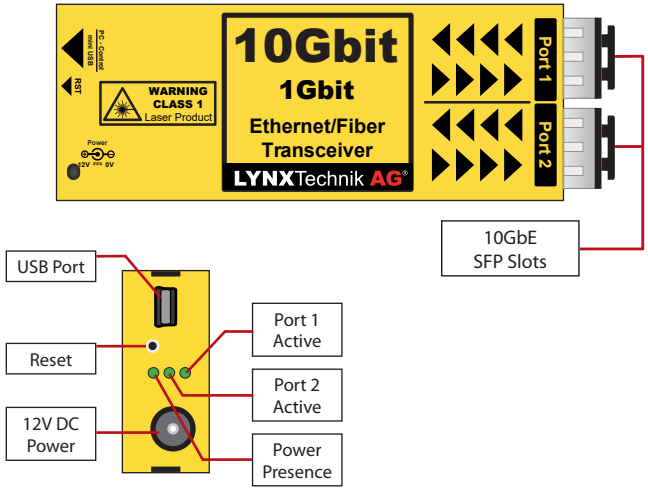
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yellobrik® Quick Reference

OET 1910

10GbE to Fiber Transceiver



The OET 1910 is a small Ethernet to fiber converter that extends 1GbE or 10GbE signals over long distances. It operates as a pass-through device and does not support speed conversion between 1GbE and 10GbE. It is available in RJ45 to Standard 1310nm single-mode, RJ45 to Multimode, RJ45 to CWDM, and multimode to CWDM single-mode versions.

Connections

OET 1910: RJ45 connection and Duplex Standard 1310nm Single-Mode
OET 1910 MM: RJ45 connection and Duplex LC Multi-mode
OET 1910 MC: Duplex LC Multi-mode and Duplex LC CWDM Single-mode
OET 1910 CW: RJ45 connection and Duplex LC CWDM Single-mode

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

Operation is fully automatic, with data rates automatically detected and configured for 1 Gbit/s or 10 Gbit/s operation over the optical interfaces. The module features two fully independent SFP+ cages, allowing flexible combinations of fiber and copper connections.
Hot-swapping and hot-plugging of SFP modules and connections are supported. No user configuration is required for normal operation.
Monitoring and status control are available via the RCT 1012 or through a direct PC connection.

Module LEDs

Power LED		
	Green	Device Running
	Yellow (blinking)	"Locate Module" function active
	Red (blinking)	Hardware Issues
	Off	Device Not Powered
Port 1 & Port2 LED		
	Green	Valid Signal Present
	Both blinking	Both links are active and operating at the same data rate
	Off	No Signal Present

Distances

OET 1910 Single-mode Standard 1310nm: up to 20km (12 miles)
OET 1910 MM Multi-mode: up to 300m (1000 feet)
OET 1910 MC Multi-mode/CWDM: up to 300/40km (1000feet/25 miles)
OET 1910 CW Single-mode CWDM: up to 40km (25 miles)

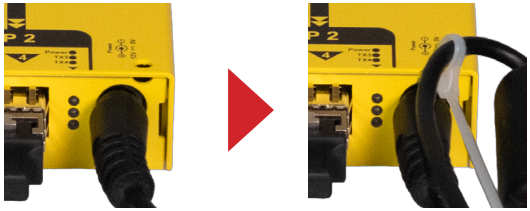
Power

The module requires a 12V DC power input. The LED indicates when power is connected. If using an external power supply, a clean 7–15V DC source is required.

The OET 1910 has a power consumption of 4.7W (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.

