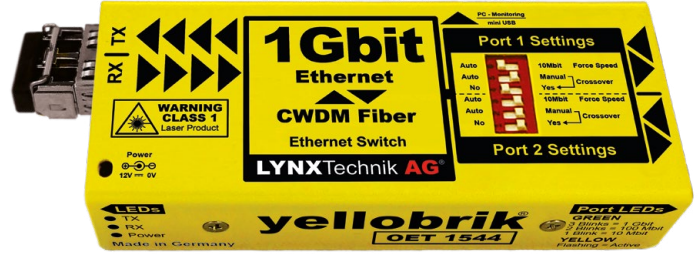


Ethernet to Fiber Transceiver (switch) - CWDM

- Supports standard ethernet inputs up to 1 Gbit/s
- 3 port ethernet switch (1 fiber, 2 electrical)
- Auto (10/100/1000) port speed detection
- Manually force 10Mbit/s electrical speed (if needed)
- Fiber transceiver speed always 1 Gbit/s
- Auto or manual electrical crossover selection
- Distances up to 80km(49.7 miles)* over fiber
- 18 CWDM wavelength selections (ITU-T G.694.2)



The OET 1544 is a compact CWDM compatible ethernet 3 port switch, designed to extend the reach of electrical ethernet signals over long distances using a constant (fixed) high speed 1 Gbit/s optical transceiver speed.

18 selectable CWDM wavelengths are provided to enable the module to be used in a multiplexed CWDM environment. When paired with another OET 1544 at the receiving end (using two fiber links) you have a cost-effective Ethernet extender system for distances up to 80km* - providing a stable, high speed 1Gbit/s error free optical connection between locations.

The OET 1544 has two standard RJ45 electrical ethernet ports plus fiber I/O and functions as a 3 port ethernet switch. For legacy system use; each electrical ethernet port can be set for automatic speed detection (10/100/1000) or forced to 10 Mbit/s, and each port can use auto crossover detection or be forced manually if needed. These functions are available using the dip switch.

Ordering Info:

The **OET 1544** price **DOES NOT INCLUDE** the fiber transmitter SFP sub module. Please specify the required wavelength by replacing the XXXX in the Option #

CWDM Wavelength Options (select one)

Option #	Wavelength	TX Power	RX Sensitivity	Distance*
OH-TR-58-XXXX-LC	1270 - 1610nm	0 to +5dBm	-23dBm	80km* (49.7 miles)
OH-TR-54-XXXX-LC	1270 - 1610nm	-5 to 0dBm	-23dBm	40km* (24.6 miles)

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 Optic	1 x fiber optic input (Range 1270-1610nm, Sensitivity -3dBm to -23dBm) 1 x fiber optic output CWDM (ITU-T G.694.2) 18 selectable wavelengths Duplex (Single mode) using LC/PC Connections
	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
	Max. distance approx. 80km* (49.7 miles - Singlemode)
Power	+12V DC @ 1.7W nominal without SFP (supports 7 - 22VDC input range)
Physical	Size: 120mm x 42mm x 22mm (4.73" x 1.65" x 0.86") including connectors Weight: 125g (4.4oz)
Ambient	5 - 40°C (41 - 104°F) 90% Humidity (non condensing)
Model #	OET 1544 (EAN# 4250479329454)
Includes	Module, AC power supply

Power Adapter Options

The kit includes an AC power supplies. The power adapters below are optional.



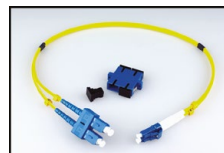
P-TAP 1000
Use with a standard battery P-TAP power source.



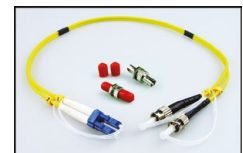
XLR 1000
Use with a standard 4 pin XLR camera battery power source.

Fiber Adapter Options

These adapter kits allow the use of ST or SC fiber connections on the module. SMF 0.5m (19.6") tail introduces less than 0.25dB attenuation.



Model# **LC/SC DUP**
LC/PC to SC/PC Adapter



Model# **LC/ST DUP**
LC/PC to ST/SC Adapter

*Distance is an approximation. Actual distances achieved can be longer or shorter depending on the type of cable. Determine link losses and perform optical budget calculations to ensure correct operation.

