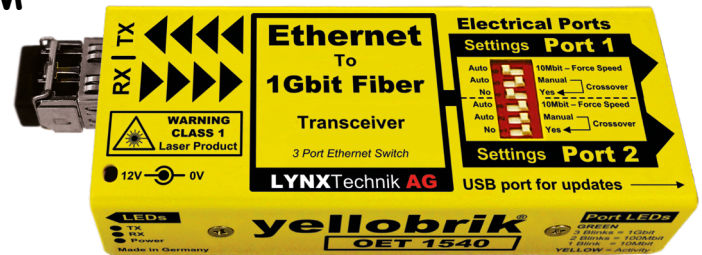


Ethernet to Fiber Transceiver (switch) - CWDM

- Supports standard Ethernet inputs up to 1 Gbit
- 3 port Ethernet switch (1 fiber, 2 electrical)
- Auto (10/100/1000) port speed detection
- Manually force 10Mbit electrical speed (if needed)
- Fiber transceiver speed always 1 Gbit
- Auto or manual electrical crossover selection
- Distances up to 40km (24.8 miles) over fiber
- 18 CWDM wavelengths selections (ITU-T G.694.2)



The OET 1540 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 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 1540 at the receiving end (using two fiber links) you have a cost-effective Ethernet extender system for distances up to 40km - providing a stable, high speed 1Gbit error free optical connection between locations.

The OET 1540 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 10Mbit, and each port can use auto crossover detection or be forced manually if needed. These functions are available using the dip switch.

Power Adapter Options

The kit **INCLUDES** AC power supplies. The power adapters below are optional.



P-TAP 1000

Use with a standard battery P-TAP power source.



Ordering Info:

Note: The **OET 1540** price **DOES NOT INCLUDE** the fiber transmitter SFP sub module. Please specify the required wavelength from the option list below.

CWDM Wavelength Options. (select one)

Wavelength	TX Power	RX Sensitivity	Option #
1270nm	-5 to 0 dBm	-21dBm	OH-TR-54-1270
1290nm	-5 to 0 dBm	-21dBm	OH-TR-54-1290
1310nm	-5 to 0 dBm	-21dBm	OH-TR-54-1310
1330nm	-5 to 0 dBm	-21dBm	OH-TR-54-1330
1350nm	-5 to 0 dBm	-21dBm	OH-TR-54-1350
1370nm	-5 to 0 dBm	-21dBm	OH-TR-54-1370
1390nm	-5 to 0 dBm	-21dBm	OH-TR-54-1390
1410nm	-5 to 0 dBm	-21dBm	OH-TR-54-1410
1430nm	-5 to 0 dBm	-21dBm	OH-TR-54-1430

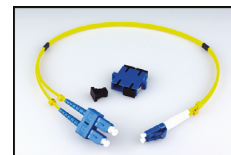
Wavelength	TX Power	RX Sensitivity	Option #
1450nm	-5 to 0 dBm	-21dBm	OH-TR-54-1450
1470nm	-5 to 0 dBm	-21dBm	OH-TR-54-1470
1490nm	-5 to 0 dBm	-21dBm	OH-TR-54-1490
1510nm	-5 to 0 dBm	-21dBm	OH-TR-54-1510
1530nm	-5 to 0 dBm	-21dBm	OH-TR-54-1530
1550nm	-5 to 0 dBm	-21dBm	OH-TR-54-1550
1570nm	-5 to 0 dBm	-21dBm	OH-TR-54-1570
1590nm	-5 to 0 dBm	-21dBm	OH-TR-54-1590
1610nm	-5 to 0 dBm	-21dBm	OH-TR-54-1610

Technical Specifications

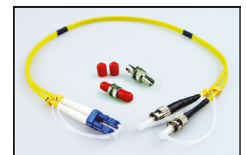
Ethernet	2 x Ethernet ports, RJ 45 Connectors. 10 BaseTUTP category 3,4 or 5 cable up to 328ft/100m (2 pairs) 100 BaseTXUTP category 5 cable up to 328ft/100m (2 pairs) 1000 BaseTXUTP category 5 cable up to 328ft/100m (4 pairs)
	Auto detect bit rate (10/100/1000), or force to 10Mbit for each port (selectable)
	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))
	Fiber TX active and RX active LEDs on side of module
	Max. distance approx. 40km (24.8 miles - Singlemode)
Power	+12VDC @ 1.5W nominal without SFP +12VDC @ 2.3W nominal with SFP (supports 7 - 15VDC 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 1540 - (EAN# 4250479315426)
Includes	Module, AC power supply

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

Specifications subject to change