

## 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 selection
- 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 wavelength 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.

### Ordering Info:

Note. The **OET 1540** price **DOES NOT INCLUDE** the fiber transceiver SFP sub module. Please specify the required wavelength from the option list below when ordering. One **MUST** be specified, For example the order needs to separately specify the module **OET 1540** and an optional fiber Transceiver SFP e.g. **OH-TR-54-1550** (for 1550nm)

### CWDM TX Wavelength Options (select one)

Wavelength	Power	Option #	Wavelength	Power	Option #
1270nm	+2dBm	<b>OH-TR-54-1270</b>	1450nm	+2dBm	<b>OH-TR-54-1450</b>
1290nm	+2dBm	<b>OH-TR-54-1290</b>	1470nm	+2dBm	<b>OH-TR-54-1470</b>
1310nm	+2dBm	<b>OH-TR-54-1310</b>	1490nm	+2dBm	<b>OH-TR-54-1490</b>
1330nm	+2dBm	<b>OH-TR-54-1330</b>	1510nm	+2dBm	<b>OH-TR-54-1510</b>
1350nm	+2dBm	<b>OH-TR-54-1350</b>	1530nm	+2dBm	<b>OH-TR-54-1530</b>
1370nm	+2dBm	<b>OH-TR-54-1370</b>	1550nm	+2dBm	<b>OH-TR-54-1550</b>
1390nm	+2dBm	<b>OH-TR-54-1390</b>	1570nm	+2dBm	<b>OH-TR-54-1570</b>
1410nm	+2dBm	<b>OH-TR-54-1410</b>	1590nm	+2dBm	<b>OH-TR-54-1590</b>
1430nm	+2dBm	<b>OH-TR-54-1430</b>	1610nm	+2dBm	<b>OH-TR-54-1610</b>

## 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 164ft/50m (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 (Dual Singlemode) 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 40km (24.8 miles - Singlemode)

### Power

+12VDC power supply (included)  
 ( supports external power input from 9 - 14 VDC )  
 Power LED on side of module

### Size

105mm x 40mm x 22mm (4.13" x 1.57" x 0.86")

### Model #

OET 1540

### Includes

Module, 12V DC power supply and wall mounting brackets (fiber optic cable not included)

### Fiber Optic Connection

LC to LC Duplex (Singlemode) up to 40Km (24.8 miles)  
 (not included)



Specifications subject to change