Ethernet to Fiber Transceiver (switch)

- Supports standard Ethernet inputs up to 1 Gbit
- 3 port Ethernet switch (1 fiber, 2 electrical)
- Auto (10/100/1000) electrical port speed detection
- Manually force 10Mbit electrical speed (if needed)
- Fiber transceiver speed always 1 Gbit
- Auto or manual electrical crossover selection
- Singlemode fiber 1310nm up to 10km (6.2 miles)
- Multimode fiber 850nm up to 550m (1,804 feet)
- Duplex LC optical connections
- Supports hot swapping and hot plugging

Using the same basic module we provide two versions suitable for singlemode or multimode fiber. Each version has a different SFP installed.

The OET 1510 is a compact 3 port Ethernet switch, designed to extend the reach of electrical Ethernet signals over long distances using a constant (fixed) high speed 1 Gbit optical transceiver speed.

When paired with another OET 1510 at the receiving end (using two fiber links) you have a cost-effective Ethernet extender system for distances up to 10km providing a stable, high speed 1Gbit error free optical connection between locations.

The OET 1510 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.

**Technical Specifications**

- **Ethernet**
  - 2 x Ethernet ports, RJ 45 Connectors.
  - 10 BaseT UTP category 3,4 or 5 cable up to 328ft/100m (2 pairs)
  - 100 BaseTX UTP 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 (TX)
  - 1 x fiber optic output (RX)
  - Duplex using LC/PC Connections
  - IEEE 802.3z 1000BASE-X Gbit/s Ethernet over Fiber at 1 Gbit/s (125 MB/s)

- **Singlemode Version**
  - TX wavelength 1310nm, power -3dBm
  - RX input range 1260nm to 1620nm, sensitivity -3dBm to -21dBm
  - Max distance 10km (6.2 miles)

- **Multimode Version**
  - TX wavelength 850nm, power -2dBm to -7dBm
  - RX input sensitivity 0dBm to -15dBm
  - Max distance approx 550m (1804 feet)

- **Fiber TX active and RX active LEDs on side of module**

- **Power**
  - +12VDC @ 2.2W nominal - (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 1510 (singlemode) - (EAN# 4250479315129)
  - OET 1510 MM (multimode) - (EAN # 4250479321144)

- **Includes**
  - Module, AC power supply

**Fiber Adapter Options** (singlemode only not multimode)

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

**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

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