

## 10Gbit/s Ethernet to Fiber Transceiver

- Supports standard Ethernet/Optical signals of 10Gbit/s or 1Gbit/s
- Solutions provided for:
  - » Electrical to CWDM fiber conversion
  - » Multimode Fiber to singlemode Fiber conversion
  - » Multimode to CWDM Fiber conversion
- 2x 10Gbit/s transceiver ports (Electrical/Optical)
- Maximum throughput of 20Gbit/s (full duplex)
- Supports distances up to 25km (15.5 miles) over singlemode fiber\*
- Power and signal present LED indication
- Supports hot swapping and hot plugging

The OET 1940 are a range of variants to convert CWDM and MM fiber optic ethernet signals and extend the reach of 1Gbit/s or 10Gbit/s electrical ethernet signals over long distances.

The following variations are available:

### OET 1940 (Copper ◄► CWDM)

This basic variant is an electrical RJ-45 to CWDM multiplexed fiber optic converter. The module includes a 10Gbit/s RJ45 electrical SFP.

The CWDM SFP has to be purchased separately. Please refer to the table below to find a suitable model.

### OET 1940 MC (Multimode ◄► CWDM)

The optical multimode to optical CWDM converter. The module includes a multimode SFP.

The CWDM SFP has to be purchased separately. Please refer to the table below to find a suitable model.

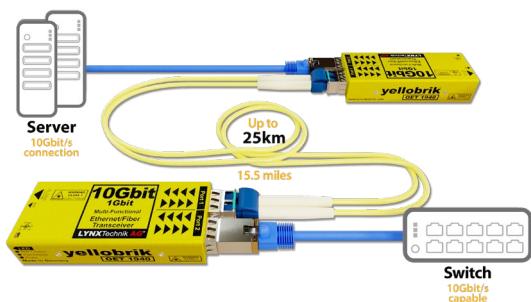
### OET 1940 MS (Multimode ◄► Singlemode)

The optical multimode to optical single mode converter variant. The module includes the multimode and single mode SFPs, each with two fiber connections, one for TX and one for RX (LC connections)

### CWDM SFP Options (select one when ordering OET 1940 or OET 1940 MC)

Wavelength	Option #	Wavelength	Option #
1270nm	OH-TR-10G-1270-LC	1450nm	OH-TR-10G-1450-LC
1290nm	OH-TR-10G-1290-LC	1470nm	OH-TR-10G-1470-LC
1310nm	OH-TR-10G-1310-LC	1490nm	OH-TR-10G-1490-LC
1330nm	OH-TR-10G-1330-LC	1510nm	OH-TR-10G-1510-LC
1350nm	OH-TR-10G-1350-LC	1530nm	OH-TR-10G-1530-LC
1370nm	OH-TR-10G-1370-LC	1550nm	OH-TR-10G-1550-LC
1390nm	OH-TR-10G-1390-LC	1570nm	OH-TR-10G-1570-LC
1410nm	OH-TR-10G-1410-LC	1590nm	OH-TR-10G-1590-LC
1430nm	OH-TR-10G-1430-LC	1610nm	OH-TR-10G-1610-LC

### Application Example: OET 1940 Basic Application



\*Distance is an approximation. Actual distances achieved can be longer or shorter depending on the type of cable. Specially, when it comes to fiber cables and accumulated optical losses in the fiber link. Determine link losses and perform optical budget calculations to ensure correct operation.

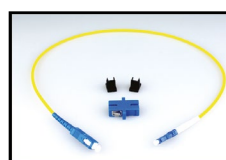


## Technical Specifications

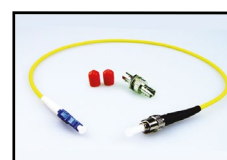
<b>SFP Slots</b>	2 x 10 Gigabit SFP+ slots (Port 1 & 2)
	Supports 10GBase-T SFP, 10GBase-X, 1000Base-T
	IEEE 802.3ae
<b>Port 1</b>	<b>10Gbit/s Base Optical Long Reach+ Transceiver SFP (OET 1940 MS)</b>
	1310nm wavelength - singlemode
	Duplex LC connector TX Optical Power: -3 to +1dBm / RX Sensitivity: -14.4dBm Max. distance up to 20km (~12.4 ml)*
<b>Port 2</b>	<b>10Gbit/s Base Optical CWDM Transceiver SFP (OET 1940) (OET 1940 MC)</b>
	1470/1490/1510/1530/1550/1570/1590/1610nm wavelength
	Duplex LC connector TX Optical Power: max. 0 to 4dB / RX Sensitivity: -23 dBm Max. distance up to 25km (~15.5ml)*
<b>Port 2</b>	<b>10Gbit/s Base Electrical I/O SFP (OET 1940)</b>
	10 Gigabit Ethernet via Cat6a/Cat7 cable
	RJ-45 connector Max. distance up to 30m (~98.4ft)*
<b>Port 2</b>	<b>10Gbit/s Base Optical Multimode Transceiver SFP (OET 1940 MC) (OET 1940 MS)</b>
	850nm wavelength - multimode
	Duplex LC connector TX Optical Power: -6 to -1dBm / RX Sensitivity: -11dBm Max. distance up to 300m (~984.2 ft)* - 50/125µm OM3
<b>LED</b>	3 x LED (1x Power LED) (2x Signal present LED)
<b>Power</b>	+12V DC @ 4.6W with SFPs ( supports 7 - 15V DC input range )
<b>Physical</b>	Size: 120mm x 42mm x 22mm (4.73" x 1.65" x 0.86") including connectors Weight: 125g (4.4oz)
<b>Ambient</b>	5 - 40°C (41 - 104°F) 90% humidity (non condensing)
<b>Model #</b>	OET 1940 (EAN# 4250479328372) OET 1940 MC (EAN# 4250479328396) OET 1940 MS (EAN# 4250479328389)
<b>Includes</b>	Module, Power Supply, SFP(s) as per module description

### Fiber Adapter Options

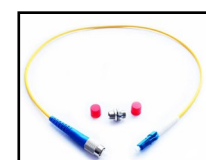
These adapter kits allow the use of ST or SC fiber connections on the module. SMF 0.5m (19.6") tail introduces less than 0.25dB attenuation.



Model# LC/SC SIM  
LC/PC to SC/PC Adapter



Model# LC/ST SIM  
LC/PC to ST/SC Adapter



Model# LC/FC SIM  
LC/PC to FC/PC Adapter

