

10Gbit/s Ethernet to Fiber bidirectional Transceiver

- Supports standard Ethernet/Optical signals at 10Gbit/s or 1Gbit/s
- Extend 10Gbit/s Ethernet up to 30km* (18.6 miles) over a single bidirectional fiber link
- Maximum throughput of 20Gbit/s (full-duplex)
- Includes 2 modules and 2 power supplies
- Power and signal present LED indication
- Simple plug and play operation
- Supports hot swapping and hot plugging

The OBD 1910 kit is a simple, easy to use, plug and play solution which can extend a 1Gbit/s or 10Gbit/s electrical Ethernet network up to 30km* over a single fiber link. Usually 2 fiber links are needed between locations (TX and RX) but the OBD 1910 uses WDM multiplexing to use a single bidirectional fiber link (singlemode fiber)

The kit includes 2 Modules and 2 power supplies, just make the network connections and connect the fiber and you are all set. No complex configurations or set ups needed. The modules will support 1G and 10G Ethernet networks with a maximum throughput of 20Gbit/s (full duplex)

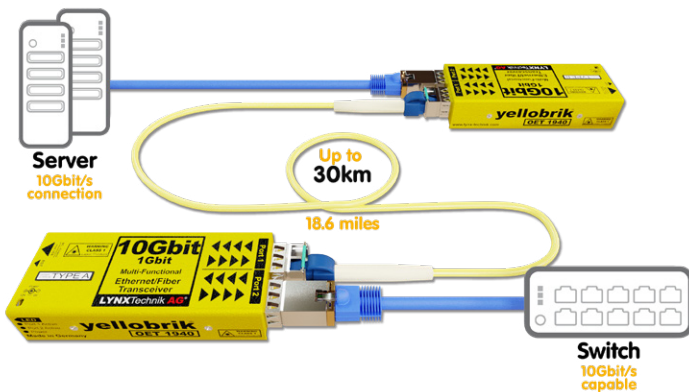
If your current network infrastructure is using multimode fiber in each location, then you are limited on connectivity distance. If you need to extend this multimode network over a long distance to another location, then we have the OBD 1910 MM version of the kit, which will convert the dual multimode RX and TX connections into a single bidirectional link using singlemode fiber.



Technical Specifications

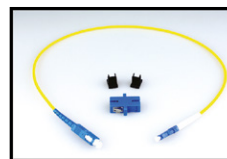
SFP Slots	2 x 10 Gigabit SFP+ slots (Port 1 & 2)
	Supports 10GBase-T SFP, 10GBase-X, 1000Base-T
	IEEE 802.3ae
Port 1	10Gbit/s Base Optical Bidirectional Transceiver SFP
	1270nm and 1330nm wavelength - bidirectional (WDM)
	Simplex LC connector TX Optical Power: max. 0 to 5dBm / RX Sensitivity: -15dBm Max. distance up to 30km (~18.6mi)*
Port 2	10Gbit/s Base Optical Multimode Transceiver SFP
	850nm wavelength - multimode Duplex LC connector TX Optical Power: -6 to -1dBm / RX Sensitivity: -11dBm Max. distance up to 300m (~984.2 ft)* - 50/125µ OM3
	10Gbit/s Base Electrical I/O SFP
	10 Gigabit Ethernet RJ-45 connector via Cat6a/Cat7 cable Max. distance up to 30m (~98.4ft)*
LED	3 x LED (1x Power LED) (2x Signal present LED)
Power	+12V DC @ 4W with SFPs (supports 7 - 15V DC input range)
Physical (per module)	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 #	OBD 1910 E (EAN# 4250479328334) OBD 1910 MM (EAN# 4250479328341)
Includes	2x Modules, 2x Power Supplies, Quick Reference Guide

Application Example: OBD 1910 E

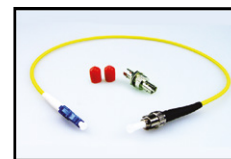


Fiber Adapter Options

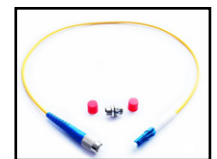
These adapter kits allow the use of ST or SC fiber connections on the module. SMF 0.5m (19.6") tail introduces less than 0.25dB attenuation.



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

*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.