

10/100 Mbps Ethernet Single Mode WDM Fiber Media Converter Kit - SC

StarTech ID: ET90110WDM



This Ethernet to SM Fiber Media Converter kit creates a cost-effective Ethernet-fiber link, transparently converting to/from 10Base-T or 100Base-Tx Ethernet signals and 100Base-Fx optical signals to extend an Ethernet network connection over a fiber backbone.

The converter offers wavelength-division multiplexing, enabling bi-directional communication over a single strand of fiber, essentially doubling the capacity of your existing fiber infrastructure without having to install new cabling.

The converter supports a maximum single mode fiber optic cable distance of 20km (~12 miles), providing a simple solution for connecting 10Base-T/100Base-Tx Ethernet networks to remote locations using SC-terminated single mode fiber, while delivering ideal network performance and scalability.

Easy to set up and install in a matter of seconds, the Ethernet to WDM SM Fiber Converter kit includes both endpoints (two interchangeable modules); these durable and compact fiber media converters feature a heavy-duty power supply that can withstand challenging environments, and offer 6 LED indicators to make monitoring the Ethernet/fiber network link easy.

Designed to offer a durable and convenient Ethernet to fiber solution, the Ethernet to SM Fiber Media Converter features an all-steel chassis, and can be wall-mounted for out-of-the-way installations.

Applications and Solutions

- Bridging two Ethernet networks using a single fiber cable

Features

- Single mode design allows signals to be transmitted up to 20 Km
- WDM (Wave Division Multiplexing) technology allows the use of a single fiber cable for both sending and receiving of data (Tx/Rx), reducing the amount of cable required by half

Technical Specifications

- Warranty: 1 Year warranty
- Connector Types: 1 - Fiber Optic SC Female
- Connector Types: 1 - RJ45 Female
- Product Height: 0.79 in [20 mm]
- Product Length: 4.84 in [123 mm]
- Maximum Data Transfer Rate: 10/100 Mbps
- Carton Quantity: 8
- Industry Standards: IEEE 802.3 10Base-T, 802.3u 100Base-TX, 100Base-FX
- Shipping (Package) Weight: 2.43 lb [1.1 kg]
- Product Weight: 12 oz [340 g]
- Product Width: 3.39 in [8.6 cm]
- Wavelength: Tx: 1310 nm / Rx: 1550 nm
- BER: -10
- Sensitivity: -32 dBm
- Output Power: -18 dBm
- Power Margin: 14 dB
- Return Loss: -14 dBm
- Supported Cable Type: 9/125 um Single Mode (SC Connector)
- Switching Mechanism: Store and Forward
- Additional Features: Link-loss forwarding, loop-back test, remote monitor status
- Max Transfer Distance: 20 km
- Power Adapter Included: Yes
- Output Voltage: 12 DC
- Output Current: 1 A
- Center Tip Polarity: Positive
- Humidity: 10~90% RH
- Operating Temperature: 0°C to 50°C (32°F to 122°F)

- Storage Temperature: -10°C to 70°C (14°F to 158°F)
- MTBF: 38,000 hours

