

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

- Bridging two Ethernet networks using a single fiber cable

Features

- 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
- Single mode design allows signals to be transmitted up to 20 Km
- Additional features include Link-loss forwarding, loop-back test, remote monitor status
- Supports 9/125 μm Single Mode fiber cable (SC Connector)

Technical Specifications

Warranty	2 Years
PoE	No
WDM	Yes
Industry Standards	IEEE 802.3 10BASE-T
Industry Standards	IEEE 802.3u 100BASE-FX
Industry Standards	IEEE 802.3u 100BASE-TX
Local Unit Connectors	1 - Fiber Optic SC Female
Local Unit Connectors	1 - RJ-45 Female
Remote Unit Connectors	1 - Fiber Optic SC Female
Remote Unit Connectors	1 - RJ-45 Female
Maximum Data Transfer Rate	10/100Mbps
Max Transfer Distance	20 km (12.4 mi)
Fiber Type	Single Mode
Wavelength	1310nm
BER	< 10 ⁻¹⁰
Optical Power	-18dBm
Return Loss	-14 dBm
Sensitivity	-32dBm
Switching Architecture	Store and Forward
Power Budget	14dB
MTBF	38,000 Hours
Product Length	4.8 in [123 mm]
Product Width	3.4 in [8.6 cm]
Product Height	0.8 in [20 mm]
Product Weight	12 oz [340 g]
Power Adapter Included	Yes
Output Voltage	12 DC
Output Current	1A
Center Tip Polarity	Positive
Operating Temperature	05/13/2012eg;C to 505/13/2012eg;C (325/13/2012eg;F to 1225/13/2012eg;F)
Storage Temperature	-105/13/2012eg;C to 705/13/2012eg;C (145/13/2012eg;F to 1585/13/2012eg;F)
Humidity	10~90% RH
Shipping (Package) Weight	2.4 lb [1.1 kg]
Included in Package	1 - Local Media Converter Unit

Included in Package	1 - Remote Media Converter Unit
Included in Package	4 - Mounting Brackets (w/ Screws)
Included in Package	2 - Power Adapters
Included in Package	1 - Instruction Manual

Certifications, Reports and Compatibility

