



Fast Ethernet WDM Media Converter

10/100Base-TX to 100Base-FX (SC) Single-Mode

Model
510547

Double your traffic capacity with ease!

The INTELLINET NETWORK SOLUTIONS™ Fast Ethernet WDM (bi-directional wavelength division multiplexing) Media Converter utilizes a single strand of fiber to transmit network traffic on separate receive and transmit wavelengths (1310/1550 nm). This innovative technology allows you to effectively use the two strands for two independent connections or to double the capacity without digging in a second fiber cable. The converter is completely transparent to the network so the network performs exactly the way it did before — only now it can support both copper and fiber mediums.

Expands the Size of an Existing Network

Provides fiber connectivity to Ethernet segments, allowing for even further networking expansion between extended workgroups. Also provides building-to-building connectivity without the need for the cost and disruption associated with the installation of additional routers.

Enhances the Distance between Networking Devices

Connecting the converter to fiber segments can further extend distances between networking nodes. This can be achieved by direct connection between the converter and a fiber-based node or networking device.

Cabling Flexibility

Network managers can install fiber cabling anywhere within a network without changing the arrangement of copper-based Ethernet. The compact size of the converter allows it to be easily deployed in any narrow desktop location or to be used in a wall-mount installation. Several converters can be simultaneously installed into a 19" rack-mountable chassis.

Lifetime Warranty

Strict manufacturing standards ensure the highest quality in all INTELLINET NETWORK SOLUTIONS products. All items carry a full Lifetime Warranty — the strongest quality commitment anyone can make.





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Features

- Data transfer rate: 100 Mbps
- WDM (wavelength division multiplexing) technology utilizes only one strand of fiber to transmit data on separate receive and transmit wavelengths
- Wavelengths: receive (RX), 1550 nm; transmit (TX), 1310 nm
- 10/100Base-TX RJ-45 port: maximum distance 100 m / 300 ft. (Cat5e and better)
- RJ-45 port with Auto MDI/MDI-X support
- 100Base-FX single-mode Fiber SC port
- Fiber distance support: up to 20 km / 12.4 mi. (9/125 μ m cable)
- Status LEDs for easy monitoring of device status
- Link Fault Signaling (LFS)
- Remote and local loop back test
- DIP switches for multiple configuration options
- External power adapter
- Can be used stand-alone or in INTELLINET NETWORK SOLUTIONS converter chassis model 519151 (12 Port) and 517553 (4 Port)
- WDM Media Converter Models 510547 and 510530 need to be installed as pairs on opposite sides of the same fiber cable
- Lifetime Warranty

Specifications

STANDARDS

- IEEE 802.3 (Twisted Pair Ethernet)
- IEEE 802.3u (Twisted Pair/Fiber Optic Fast Ethernet)

GENERAL

- Media support:
 - 10/100Base-TX Cat5e or higher UTP/STP RJ-45
 - 100Base-FX single-mode 9/125 μ m Fiber
- Connectors:
 - RJ-45 port, 10/100Base-TX
 - Fiber SC port, 100Base-FX
- Distances:
 - 20 km / 12.4 mi. (9/125 μ m Fiber cable)
 - 100 m / 300 ft. (RJ-45 cable)
- Wavelengths:
 - Receive (RX): 1550 nm
 - Transmit (TX): 1310 nm
- Min. TX power: -14 dBm
- Max. TX power: -8 dBm
- RX sensitivity: -31 dBm
- Min. power budget: 17 dB
- Max. power budget: 23 dB
- Certifications: FCC Class A, CE Mark

LEDs

- Power
- LINK/TX for RJ-45 port
- LINK/TX for Fiber SC port

DIP SWITCHES

- DIP 1 - enables/disables auto-negotiation
- DIP 2 - copper port (RJ45) duplex mode; full duplex or half duplex
- DIP 3 - copper port (RJ45) data bit rate; 10 Mbps or 100 Mbps

- DIP 4 - Fiber port duplex mode; full duplex or half duplex
- DIP 5 - enables/disables link fault signaling (LFS)
- DIP 6 - enables/disables local loop back (LLBK)
- DIP 7 - enables/disables remote loop back (RLBK)

POWER

- External power adapter: 12 V DC, 0.5 A
- Power consumption: 2.5 Watts (maximum)

ENVIRONMENTAL

- Metal housing
- Dimensions: 109 (L) x 74 (W) x 23 (H) mm (4.2 x 2.9 x 0.9 in.)
- Weight: 160 g (0.34 lbs.)
- Operating temperature: 0 – 50°C (32 – 122°F)
- Operating humidity: 10 – 80% RH, non-condensing
- Storage temperature: -20 – 70°C (-4 – 158°F)

PACKAGE CONTENTS

- Fast Ethernet WDM Media Converter
- External power adapter
- User manual

For more information on INTELLINET NETWORK SOLUTIONS products, consult your local dealer or visit **www.intellinet-network.com**.



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