



## Gigabit Ethernet Single-Mode Media Converter

**10/100/1000Base-T to 1000Base-LX (SC) Single-Mode, Wavelength 1310 nm, 20 km (12.4 mi)**

Part No.: **507349**

EAN-13: 0766623507349 | UPC: 766623507349

The Intellinet Network Solutions Gigabit Ethernet Single Mode Media Converter was specifically designed to offer the network designer a device for migration from copper-based Ethernet to Fiber Ethernet. Now migration or expansion of existing networks can be achieved with minimum cost and complexity.

### 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, and up to 14 media converters can be simultaneously installed into a 19" rack-mountable chassis (model 507356).

## Features:

- Fiber SC single-mode port connects over distances of up to 20 km (12.4 miles)
- Data transfer rate: 10/100/1000 Mbps
- 10/100/1000 Mbps auto-sensing Gigabit Ethernet RJ45 port with Auto MDI/MDI-X support
- RJ45 port with Auto MDI/MDI-X support and auto-negotiation
- 1000Base-LX single-mode Fiber SC duplex port
- Wavelength: 1310 nm
- Status LEDs for power and Link/TX for both ports
- External power adapter, 5 VDC
- Functions as a stand-alone converter or can be used with the 14-slot media converter chassis, model 507356
- Three-Year Warranty

## Specifications:

### Standards

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

### General

- Media support:
  - 1000Base-T Cat5 or higher UTP/STP RJ45, EIA/TIA 568
  - 1000Base-LX single-mode 8.3/125  $\mu\text{m}$  or 8.7/125  $\mu\text{m}$  or 8/125  $\mu\text{m}$  or 10/125  $\mu\text{m}$
- Connectors:
  - RJ45 port, 1000Base-T
  - Fiber SC duplex port, 1000Base-LX
- Distances:
  - 20 km / 12.4 mi. (fiber cable)
  - 100 m / 300 ft. (RJ45 cable)
- Wavelength: 1310 nm
- Power output: -8 to -3 dBm
- RX sensitivity:  $\leq -22$  dBm
- Signal loss: 0.3 dB/km
- MTBF > 100,000 hours
- Certifications: FCC Class B, CE

### LEDs

- Power
- Link/Activity
- Full-Duplex/Collision

- 1000 Mbps link speed indicator for RJ45 port
- Link indicator for fiber port

#### Power

- External power adapter, 5 VDC, 1.2 A
- Power consumption: 5 watts (maximum)

#### Environmental

- Metal housing
- Dimensions: 105 (L) x 70 (W) x 26 (H) mm (4.1 x 2.8 x 1.0 in.)
- Weight: 0.18 kg (0.4 lbs.)
- Operating temperature: 0 – 50°C (32 – 122°F)
- Operating humidity: 10 – 90% RH, non-condensing
- Storage temperature: -45 – 70°C (-49 – 158°F)

#### Package Contents

- Gigabit Ethernet Single Mode Media Converter
- External power adapter
- Instructions



