

Gigabit Ethernet Media Converter

10/100/1000Base-T to 1000Base-SX (SC) Multi-Mode, 550 m (1,800 ft.), Autonegotiation

Part No.: 508544

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Media Converter with Gigabit Ethernet - Expand the size of an existing network

The Intellinet Network Solutions Gigabit Ethernet Media Converter offers the network designer a device for migration from copper-based Ethernet to Fiber Ethernet. It offers maximum flexibility with 10/100/1000Base-TX and auto-negotiation. Now, migration or expansion of existing networks can be achieved with minimum cost and complexity.

More connectivity options

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 media. The Gigabit Ethernet Media Converter provides fiber connectivity to Ethernet segments, allowing for even greater networking expansion between extended workgroups. It also provides building-to-building connectivity without the cost and disruption associated with installing additional routers.

Distance extension between networking devices

Connecting the converter to fiber segments further extends distances between network nodes, offering increased spatial and distance options for networks where none existed before.

Greater cabling flexibility

Network managers can install fiber cabling anywhere within a network without

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changing the arrangement of their 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 Gigabit Ethernet Media Converters can be simultaneously installed into a 19" rackmountable chassis (available from Intellinet Network Solutions), providing much-needed flexibility for networks.

Features:

- One 10/100/1000 RJ45 port supporting a maximum distance of 100 m (300 ft.)
- One 1000Base-SX fiber SC multi-mode port supporting a maximum distance of 550 m (1,800 ft.)
- Supports full-duplex and half-duplex modes with autonegotiation
- Link Fault Passthrough (LFP) function for easier network maintenance
- QoS (Quality of Service) bandwidth management
- IEEE 802.1Q VLAN tagging compliant
- Cut-through and store-and-forward switching architecture
- Wavelength: 850 nm
- Supports jumbo frames up to 9.2 kBytes
- Status LEDs for power and Link/TX on both ports
- External 5 VDC power adapter
- Functions as a stand-alone converter or can be used with the 14-slot Media Converter Chassis, model 507356
- Fully NDAA-compliant
- Three-year warranty

Specifications:

Standards
• IEEE 802.3 (10Base-T Ethernet)
• IEEE 802.3u (100Base-TX Fast Ethernet)
• IEEE 802.3z (1000BASE-X Gigabit Ethernet)
• IEEE 802.3ab (Twisted-pair Gigabit Ethernet)
• IEEE 802.1d (Spanning Tree Protocol)
• IEEE 802.1q (VLAN Tagging)
• IEEE 802.1p (Traffic Prioritization)

General
• Media support:
  - 10/100/1000Base-TX Cat5e or higher UTP/STP RJ45
  - 1000Base-SX multi-mode 50/125 µm & 62.5/125 µm
• Connectors:
  - One RJ45 port
  - One fiber SC duplex port

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- Distances:
  - 220 m / 720 ft. (62.5/125 µm fiber cable)
  - 550 m / 1,800 ft. (50/125 µm fiber cable)
  - 100 m (RJ45 cable)
- Wavelength: 850 nm
- Min. TX power: -9 dBm
- Max. TX power: -3 dBm
- Certifications: FCC Class B, CE, RoHS, UKCA, NDAA

LEDs
- Power
- LINK/ACT for RJ45 port
- LINK/ACT for fiber port
- 1000 Mbps link speed indicator for RJ45 port
- 100 Mbps link speed indicator for RJ45 port
- Optical signal input LED

Power
- External power adapter: 5 VDC, 1 A

Environmental
- Metal housing
- Dimensions: 94 x 70 x 26 mm (3.7 x 2.76 x 1.02 in.)
- Weight: 300 g (10.58 oz.)
- Operating temperature: -10 - 55°C (14 - 131°F)
- Storage temperature: -40 - 70°C (-40 - 158°F)
- Operating humidity: 5 - 90%
- Storage humidity: 5 - 90% RH, non-condensing

Package Contents
- Gigabit Ethernet Media Converter
- External power adapter
- Instructions



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