

I-8641

Ethernet to Multi-Mode Fiber Optics Converter



INTRODUCTIONS

The I-8641 is an industrial grade converter, converting an Ethernet network (10/100Base-TX) to a fiber network (100Base-FX). It transparently converts Ethernet signals into optic signals. The advantages of Fiber optics are wide bandwidth, anti-EMI, and it is very suitable for long distance transmissions. The I-8641 is an ideal solution for "fiber to building" applications at a central office or local site.

BENEFITS

High-speed Transmission

The I-8641 supports MDI/MDI-X auto detection. It also includes a switch controller that can detect transmission speed (10/100Mbps) automatically. Both Ethernet port and fiber port have memory buffers that support store-and-forward mechanisms, and it assures proper data transmissions.

Flexible Mounting

The I-8641 is extremely compact and can be mounted in three ways: DIN rail, panel, and piggyback mounting.

Easy to Trouble-shoot

The I-8641 provides three LED indicators: Power, LNK/ACT, and 10/100Mbps that make trouble-shooting easier.

Robustness for the Industrial Environment

The I-8641 can work normally from -10°C to 70°C and adopts a wide range of unregulated voltage, from +10 ~ 30 V_{DC}. It provides 3,000 V_{DC} surge protection against being damaged by over-voltage. It is suitable for any harsh operating environment.

FEATURES

- ▶ Supports 1-port 100 Mbps multimode fiber optics
- ▶ Supports 10 ~30 V_{DC}
- ▶ Easily to mounted on a DIN-rail, panel or piggyback
- ▶ Support full/half-duplex flow control
- ▶ Support MDI/MDI-X auto crossover
- ▶ Embedded with a switch controller, supports auto-negotiation
- ▶ Embedded with the memory buffer, supports store and forward transmission

SPECIFICATIONS

Interface Port	Network: 10/100Base-TX & 100Base-FX standard 1 x 10/100 Mbps (RJ-45), 1 x 100 Mbps (Fiber)
Connector	1 x RJ-45 & 1 x Fiber (SC type)
Compatibility	IEEE 802.3, IEEE 802.3u
Surge Protection (Power)	3,000 V _{DC}
Isolation (Ethernet Port)	1,500 V _{rms}
LED	Power, LNK/ACT, 10/100 Mbps
Transmission Distance (Ethernet)	100 m (Multi mode fiber): 50/125, 62.5/125 or 100/140 μm multi mode fiber, 412 m for half duplex, 2 km for full duplex.
Power Requirement	Unregulated 10 to 30 V _{DC}
Power Consumption	3 Watt
Case	ABS/PC with captive mounting hardware.
Mounting	DIN-rail, panel mounting, piggyback stack
Operating Temp.	-10 to 70°C
Storage Temp.	-20 to 80°C
Operating Humidity	20 to 95% (non-condensing)
Storage Humidity	0 to 95% (non-condensing)

ORDERING INFORMATION

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