

10/100 DIN-Rail Industrial Fiber Media Converter

IMC110MMSC

Instruction Manual



StarTech.com

Hard-to-find made easy

FCC Compliance Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

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Introduction

Designed for large, higher speed bandwidth for demanding workgroups that require expansion of fast Ethernet Network in and industrial environment over long distances, the StarTech.com 10/100 DIN-Rail Industrial Fiber Media Converter MM SC (2km) offers industrial grade performance, even in harsh environments.

Featuring convenient DIN Rail mounting and easy to configure installation, the 10/100 Industrial Fiber Media Converter ensures optimum network throughput, helping to prevent unnecessary bottlenecks.

Features

- 10/100Mbps-Full/Half-duplex, Auto-Negotiation, Auto-MDI/MDIX
- Device powers from the Terminal Block power connector
- Din-Rail mounting
- Extends your RJ45 signal over Fiber Ethernet
- Supports 2048 Mac addresses
- Supports a wider temperature range
- Supports IEEE 802.3 10Base-T, 802.3u 100Base-TX and 100Base-FX industry standards

Package Contents

- 1 x RJ45 to Fiber Converter
- 1 x Information CD
- 1 x Instruction Manual (on CD)

Installation

Location

When installing the DIN-Rail Industrial Fiber Media Converter, ensure that the chosen location has a temperature between -10° and 60° Celsius and a relative humidity less than 95%, non-condensing.

Physical Installation

To install the DIN-Rail Industrial Fiber Media Converter onto a DIN rail, lower the converter onto the DIN rail from above using the slot. Push the front of the converter toward the mounting surface until it audibly snaps into place. Once the converter is in place, connect a DC power adapter to the DC terminal on the rear of the converter, then plug the adapter into a standard DC outlet.

Network Connection

When connecting the DIN-Rail Industrial Fiber Media Converter to the network, ensure that both the converter and the devices being connected to it are powered off and that all connecting cables are available. The following chart dictates the correct cable for each speed and distance:

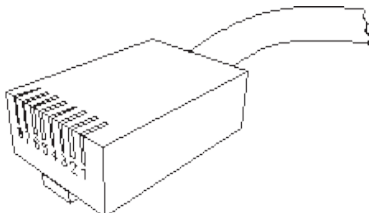
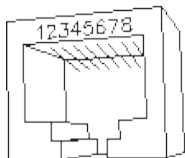
Speed	Connector	Port Speed Half/Full Duplex	Cable	Max. Distance
10Base-T	RJ-45	10/20 Mbps	2-pair UTP/STP Cat. 3, 4, 5	100 m
100Base-TX	RJ-45	100/200 Mbps	2-pair UTP/ STP Cat. 5	100 m
100Base-FX	SC, ST	100/200 Mbps	MMF (50 or 62.5 μ m)	2 km
100Base-FX	SC, ST	100/200 Mbps	SMF (9 or 10 μ m)	15, 40, 75km

Connect the cables to the output of the attached network device and then to the input of the DIN-Rail Industrial Fiber Media Converter. Once both devices are powered on, the installation is complete.

Functionality

Connector Pin Layout

The following table shows the functions of each of the pins on the RJ-45 connectors to the 10/100Base-TX ports on the DIN-Rail Industrial Fiber Media Converter:



Pin	Regular Port	Uplink Port
1	Input Receive Data +	Output Transmit Data +
2	Input Receive Data -	Output Transmit Data -
3	Output Transmit Data +	Input Receive Data +
4	Not Used	Not Used
5	Not Used	Not Used
6	Output Transmit Data -	Input Receive Data -
7	Not Used	Not Used
8	Not Used	Not Used

Specifications

LED Indicators	Port and Power Status
Material	Plastic
Maximum Distance	2 km
Operating Temperature	-10°C to 60°C (14°F to 140°F)
Power Supply	12 to 24V DC, 1.5A
Network Standards	IEEE802.3 10Base-T, IEEE802.3u 100 Base-TX/100Base-DX, IEEE802.3x
Storage Temperature	-25°C to 85°C (-13°F to 185°F)
Connectors	1x RJ45 Female Connector 2x Fiber Optic SC Female Connectors

Technical Support

StarTech.com's lifetime technical support is an integral part of our commitment to provide industry-leading solutions. If you ever need help with your product, visit www.startech.com/support and access our comprehensive selection of online tools, documentation, and downloads.

Warranty Information

This product is backed by a one year warranty.

In addition, StarTech.com warrants its products against defects in materials and workmanship for the periods noted, following the initial date of purchase. During this period, the products may be returned for repair, or replacement with equivalent products at our discretion. The warranty covers parts and labor costs only. StarTech.com does not warrant its products from defects or damages arising from misuse, abuse, alteration, or normal wear and tear.

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