



MCM110SC

MCM110ST

10/100 RJ45 to SC Fiber MultiMode Converter

10/100 RJ45 to ST Fiber MultiMode Converter

Introduction

Thank you for purchasing a StarTech.com 10/100 RJ45 MultiMode Converter. The perfect solution for converting between 10 Base-T or 100 Base-TX electrical Ethernet signals and 100 Base-FX optical Ethernet signals, the converter supports a maximum multimode fiber optic cable distance of 2km, ensuring a highly reliable signal for ideal network performance.

Features

- Auto-negotiation of 10/100 Mbps and Auto – Crossover for TX port
- Supports IEEE 802.3 10Base-T, 802.3u 100Base-TX and 100Base-FX industry standards
- Compact, lightweight design, with small form factor

System Requirements

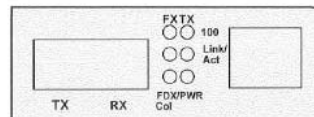
- Fiber Cable (MultiMode: 50/125, 62.5/125 or 100/140mm)
- Cat5 UTP Cable
- Power source

Package Contents

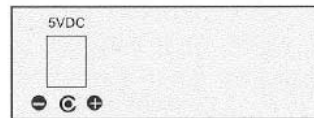
- Media Converter (1)
- 5V Power Adapter (1)
- Instruction manual (this document)(1)

Installation

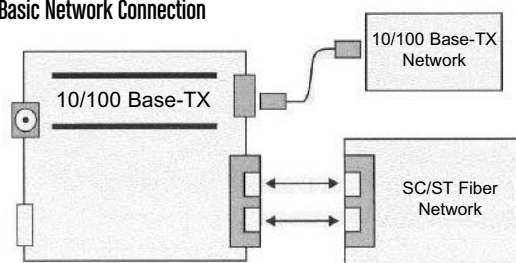
Front Panel



Rear Panel



Basic Network Connection



1. Turn off the power to the device/station on the network to which the MultiMode Converter will be installed.
2. Ensure that there is no activity on the network.
3. Connect the MultiMode Converter to the fiber network using standard MultiMode fiber cable.
4. Connect the MultiMode Converter to the 100BaseTX network, using standard UTP cable (terminated on both ends with RJ45 connectors). **Please note:** the fiber connections must be matched from the transmit socket to the receive socket.
5. Connect the 5V DC power adapter to the MultiMode Converter, and verify that the Power (denoted as PWR) LED is illuminated.
6. The TP and FX Link LEDs will illuminate, once all cable connections have been properly made. Once this occurs, please restore power to the device/station that was powered down in step #1.

Specifications

LED Functions

LED	Function
FX 100	Lit when operating as 100Base-FX
FX Link/ACT	Lit when fiber cable connection with remote device is detected. Blinks when FX traffic is present
Power	Lit when +5V power is available
FDX/Col	Lit when Full Duplex Mode is enabled. Blinking when collisions are present.
TX 100	Lit when operating as 100Base-TX
TX Link/ACT	Lit when TP cable connection with remote device is detected. Blinks when TX traffic is present

Fiber Optic Specifications

Connector Type	SC/ST
Fiber Type	Multi-mode
Wavelength	850/1310nm
Typical Distance	2 Km
Min TX Power	-19.0dBm
Max TX Power	-14.0dBm
Sensitivity	-31.0dBm
Link Budget	12.0dBm

General Specifications

Connectors	RJ45 UTP and Fiber SC or ST
Data Transfer Mode	10/100Mbps
Duplex Mode	Full or Half Duplex mode
Power Requirements	AC 100-260V DC 1A @ +5V
Operating Temperature	0 to 70°C
Operating Humidity	5% to 90% RH
Cable	UTP: Cat5 UTP Cable Fiber: MultiMode: 50/125, 62.5/125 or 100/140µm
Link Budget	12.0dBm

Support, Warranty Information, and Regulatory Compliance Statement
If you ever need help with your product, visit www.startech.com/support and access our comprehensive selection of online tools, documentation, and downloads. 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.

Limitation of Liability: In no event shall the liability of StarTech.com Ltd. and StarTech.com USA LLP (or their officers, directors, employees or agents) for any damages (whether direct or indirect, special, punitive, incidental, consequential, or otherwise), loss of profits, loss of business, or any pecuniary loss, arising out of or related to the use of the product exceed the actual price paid for the product. Some states do not allow the exclusion or limitation of incidental or consequential damages. If such laws apply, the limitations or exclusions contained in this statement may not apply to you.

FCC Compliance Statement: This equipment has been tested and found to comply with the limits for a Class A 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.