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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

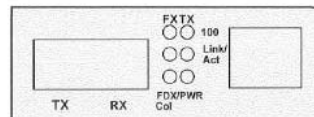• Compact, lightweight design, with small form factor

System Requirements

• Fiber Cable (MultiMode: 50/125, 62.5/125 or 100/140mm)

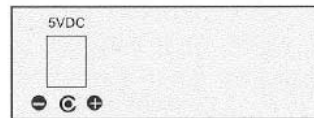• Cat5 UTP Cable

• Power source

Package Contents

• Media Converter (1)

• 5V Power Adapter (1)

• Instruction manual (this document)(1)
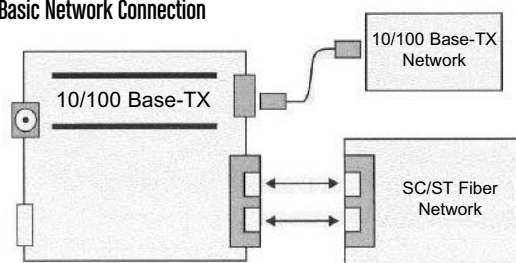
Installation

Front Panel

Rear Panel

Basic Network Connection

1. Turn off the power to the device/station on the net work 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 net work 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