# 10/100 Multi Mode Fiber Copper Fast Ethernet Media Converter ST 2 km

*StarTech ID: MCM110ST2*

The MCM110ST2 10/100 Multi Mode ST Fiber Ethernet Media Converter (2 km) creates a cost-effective Ethernet to fiber link, transparently converting to/from 10Base-T or 100Base-Tx Ethernet signals and 100Base-Fx optical signals to extend an Ethernet network connection over a multimode fiber backbone.

The ST media converter supports a maximum multimode fiber optic cable distance of 2km (1.2 miles), providing a simple solution for connecting 10Base-T/100Base-Tx Ethernet networks to remote locations using ST-terminated multimode fiber, while delivering solid network performance and scalability.

Easy to setup and install, this compact, value-conscious fast Ethernet media converter features auto-switching MDI and MDI-X support on the RJ45 UTP connections as well as manual controls for UTP mode, speed, Full and Half Duplex, as well as LFP (Link Fault pass-through) on/off.

Backed by a StarTech.com 2-year warranty and free lifetime technical support.

### Applications

- Provides connectivity to a user or network segment that is in an isolated area of a large complex or in another building altogether
- Perfect for secure environments required by government agencies where EMI is not acceptable
- Connect traffic control/monitoring systems at extreme distances to the main office
- Extend network connectivity to remote areas of stadiums, auditoriums or other venues
- Converts 10/100Base-T Ethernet to 100Base-FX fiber optic signals over multimode fiber cable

**Features**

- Supports a maximum multi mode fiber optic cable distance of 2 km
- Supports full or half-duplex operation
- Compatible with 3COM™, Cisco™, Lucent™ and Nortel™ networks
- Supports Link Fault Pass through (LFP)
- Supports IEEE 802.3 10Base-T, 802.3u 100Base-TX and 100Base-FX industry standards
- Supports IEEE 802.1q Tag VLAN pass thru
- Supports Q in Q double tagged frame transparent
- LED Indicators for simple Ethernet/Fiber network link monitoring
- Support flow control (Pause)

**Technical Specifications**

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|---|---|
| Warranty | 2 Years |
| Industry Standards | IEEE 802.3 10BASE-T |
| Industry Standards | IEEE 802.3u 100BASE-FX |
| Industry Standards | IEEE 802.3u 100BASE-TX |
| PoE | No |
| WDM | No |
| Fiber Operating Mode | Half/Full-Duplex |
| Fiber Type | Multi Mode |
| Max Transfer Distance | 2 km (1.2 mi) |
| Maximum Data Transfer Rate | 10/100Mbps |
| MTBF | 65,000 Hours |
| Optical Power | -14 ~ -20 dBm |
| Power Budget | 11 dB |
| Sensitivity | -31 dBm |
| Wavelength | 1310nm |
| Local Unit Connectors | 1 - Fiber Optic ST Duplex Female |
| Local Unit Connectors | 1 - RJ-45 Female |
| Color | Black |
| Enclosure Type | Plastic |
| Product Height | 0.8 in [20 mm] |
| Product Length | 3.7 in [95 mm] |
| Product Weight | 3.2 oz [90.5 g] |
| Product Width | 3 in [75 mm] |
| LED Indicators | 1 - Ethernet Link & Activity (ON - Fiber Link ok, Blinking - Activity on Fiber Link) |
| LED Indicators | 1 - FEF [Far End Fault](On - Fault Detected, Off - No Fault |
| LED Indicators | 1 - Fiber Link & Activity (On - Fiber Link ok, Blinking - Activity on Fiber Link) |
| LED Indicators | 1 - Full ( Full duplex / Half duplex) |
| LED Indicators | 1 - Power |
| LED Indicators | 1 - Speed (10 or 100 Mbps) |
| Center Tip Polarity | Positive |
| Input Voltage | 115 AC |
| Output Current | 0.2A |
| Output Voltage | 12 DC |

| | |
|---|---|
| Plug Type | M |
| Power Source | AC Adapter Included |
| Humidity | 10~90% RH |
| Operating Temperature | 0°C to 50°C (32°F to 122°F) |
| Storage Temperature | -10°C to 70°C (14°F to 158°F) |
| Shipping (Package) Weight | 0.9 lb [0.4 kg] |
| Included in Package | 1 - Media Converter |
| Included in Package | 1 - Power Adapter |
| Included in Package | 1 - Instruction Manual |

**Certifications, Reports and Compatibility**