



- Conversion between different transmission speeds and media types
- Built-in fiber transceiver module with SC connector
- Auto-negotiating Ethernet port (Speed and Half/Full Duplex)
- Auto-crossover Ethernet port (supports Auto MDI/MDI-X)
- Build in Link Loss Forwarding Technology to notify the peers if a link goes down
- Easier configuration with DIP Switch
- Switching architecture supports store-and-forward mode
- LED Status Display



Media Converter

MC100FX  
-SC

## Benefits

### Easy Installation

The Auto-negotiating Ethernet function empowers the MC100FX-SC2 / 30 RJ-45 port to negotiate transmission speed and mode with peer devices automatically; and the Auto-crossover Ethernet port can prevent circuit mismatch problems by auto-sensing MDI/MDIX configuration. With these intelligent functions, MC100FX-SC2 / 30 can be paired with a switch, a NIC (Network Interface Card) or a Gigabit Ethernet device via a UTP/STP cable easily.

### Easy Troubleshooting

With the Link Loss Forwarding mechanism activated, any detected broken link on the RJ-45 Ethernet port will force the fiber port to take over, and the fiber uplink port will stop transmitting then "turned off" as soon as the remote link is down. Transparent link status will be delivered by the Link Loss Forwarding mechanism to facilitate the troubleshooting process.

## Standard Compliance

## Connector & Interface

## Switch Architecture

## Fiber Parameters

## Transparent Packet

## Link Loose Forward

## DIP Switch

## LED Indication

## Power

## Dimension

## Operation Environment

## EMC

## Safety

## MC100FX-SC2

## MC100FX-SC30

## Specifications

### System Specifications

- IEEE802.3 10BASE-T
- IEEE802.3u 100BASE-TX
- IEEE802.3x Flow Control and Back pressure
- Fiber: Duplex SC
- RJ-45 Port: CAT-5 (10/100Mbps) Twisted Pair cable Auto MDI/MDI-X and Auto-Negotiation Function Support
- Store-and-Forward
- Fiber Core
  - Multi-Mode (62.5/125um, 50/125um) / Single-Mode (8/125um, 10/125um)
- Wavelength:
  - 1310nm (Multi-mode) / 1310nm (Single-mode)
- Fiber Distance:
  - Multi-Mode Fiber (2KM) / Single-Mode Fiber (30 KM)
- 64 to 1518 Bytes for Non-VLAN Ethernet packet
- 68 to 1522 Bytes for VLAN-Tag type Ethernet packet
- TX to Fiber: If TX port link down, then converter will force fiber to link down.
- Fiber to TX: If Fiber port link down, the media converter will force TX port to link down.
- DIP Switch 1: UTP auto-Negotiation / 100Mbps Full Duplex mode
- DIP Switch 2: Fiber Full/Half duplex
- DIP Switch 3: LLF ( Link Lose Forwarding ) Disable / Enable
- DIP Switch 4: Switch converter / Pure converter mode
- Module: PWR,100, LNK/Act, FDX/COL
- Stand-alone (external adapter):DC 9V / 0.7A
- 119 (L) x 85 (D) x 26 (H) mm
- Operating temperature: 0°c ~ 45°c
- Storage temperature: - 10°c ~ 70°c
- Operating humidity: 10% ~ 90%, non-condensing

### Certifications

- FCC Part15 (Class A)
- CE EMC (Class A)
- UL , cUL

## Product Description

A media converter with SC connector and multimode fiber transceiver module built-in; and is capable of extending network span up to 2km.

A media converter with SC connector and multimode fiber transceiver module built-in; and is capable of extending network span up to 30km.

For more product information, visit us on the web [www.ZyXEL.com](http://www.ZyXEL.com)

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