



The most cost-effective, flexible solution for mixed copper/fiber environments

Conversion between different transmission speeds and media types
Standalone and compact hardware design
Auto-negotiating Ethernet port (Speed and Half/Full Duplex)
Auto-crossover Ethernet port (Supports Auto MDI/MDI-X)
Standard open Fiber slots for SFP Transceiver
Built-in Link Loss Forwarding Technology
LED Status Display



Media Converter

MC1000-SFP

The MC1000-SFP is an Ethernet media converter that converts media transmission between UTP Copper cabling and fiber SFP (Small Form-Factor Pluggable) Transceivers. The MC1000-SFP copper-to-fiber module is available in 10/100Mbps Fast Ethernet and 1000 Mbps Gigabit Ethernet types, allowing seamless integration between Fast/Gigabit Ethernet networks using unshielded twisted pair (UTP) copper cabling, and Gigabit fiber networks.

Benefits

Long-haul Gigabit Ethernet

Depending on the distance between two sites, users can select and insert proper SFP Transceivers into the slots for different network environments: multi-mode SFP for short distance (up to 550m) or single-mode SFP for long distance (from 10km to 40km or 70km maximum). Regardless of the scale of deployment, the MC1000-SFP is the most cost-effective, flexible solution for mixed copper/fiber environments like LANs, campus networks or even Metropolitan Area Networks.

Easy Installation

The Auto-negotiating Ethernet function empowers the Gigabit RJ-45 port on MC1000-SFP 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, MC1000-SFP 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

IEEE802.3 10BASE-T
IEEE802.3u 100BASE-TX
IEEE 802.3ab 1000Base-T
IEEE 802.3z 1000Base-SX/LX standards
IEEE802.3x Flow Control and Back pressure

Connector and Interface

Fiber: SFP 3.3V
RJ-45 Socket: CAT-5 (10/100/1000Mbps) Twisted Pair cable Auto MDI/MDI-X and Auto-Negotiation Function Support

Link Loose Forward

TX to Fiber: If TX port link is broken, then converter will force the fiber to link down.
Fiber to TX: If Fiber port link is broken, the media converter will force the TX port to link down.

DIP Switch

DIP Switch 1: Fiber Auto-Negotiation/1000Mbps Full Duplex mode
DIP Switch 2: TX to Fiber LLF(Link Lose Forwarding) Disable/Enable
DIP Switch 3: Fiber to TX LLF(Link Lose Forwarding) Disable/Enable

LED Indication

Module: PWR,100/1000, LNK/Act, FDX/COL

Power

Standalone (external adapter):DC 9V / 0.7A

Dimension

119 (L) x 85 (D) x 26 (H) mm

Operation Environment

Operating temperature: 0°C~ 45°C
Storage temperature: - 10°C~ 70°C
Operating humidity: 10% ~ 90%, non-condensing

Safety

UL and cUL

Accessories Information

Model Name	Dimension (HxWxD)mm	Optical Receiver Sensitivity	Wavelength	Connector	Transmission Distance vs. Fiber Cable Specification			Operational Ranges	
					62.5um MMF	50um MMF	9/10um SMF	Supply Voltage	Max Current
SFP-SX	12.4 x 13.4 x 56.0 mm	-17 dBm	850nm	LC	220m	550 m	-	3.15 ~ 3.45 V	300 mA
SFP-LX-10	12.4 x 13.4 x 56.0 mm	-20 dBm	1310nm	LC	550m	550 m	10 km	3.15 ~ 3.45 V	300 mA
SFP-LHX1310-40	12.4 x 13.4 x 56.0 mm	-23 dBm	1310nm	LC	-	-	40 km	3.15 ~ 3.45 V	300 mA
SFP-ZX-80	12.4 x 13.4 x 56.0 mm	-24 dBm	1550nm	LC	-	-	80 km	3.15 ~ 3.45 V	300 mA

For more product information, visit us on the web www.ZyXEL.com

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