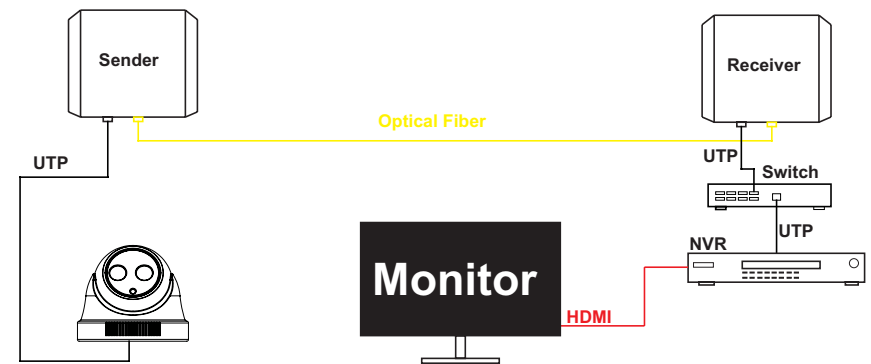


# Ethernet over Fiber

## FEATURES

- Auto-sensing 10/100 or 10/100/1000, facilitating network upgrade
- Built-in efficient switching core to implement flow control and reduce broadcast packets
- Full-duplex and half-duplex auto-sensed
- Support automatic cross connection of twisted pair interfaces, facilitating system commissioning and installation
- Support store-and-forward/cut through conversion method
- Supporting the transmission of extra-long packets up to 1600 bytes
- Supporting the transmission of extra-long VLAN packets
- Supporting Quality of Service (QoS), ensuring the transmission of VoIP packets
- Extremely low power consumption, low heat, stable performance and long lifetime

## CONNECTION DIAGRAM



## TECHNICAL SPECIFICATION

Model	FO-MDC/ETH-F33	FO-MDC/ETH-G33	FO-MDC/ETH-F35	FO-MDC/ETH-F53	FO-MDC/ETH-G35	FO-MDC/ETH-G53
Access Mode	10/100Mbps	10/100/1000Mbps		10/100Mbps		10/100/1000Mbps
Standard	IEEE802.3 10Base-T Ethernet, IEEE802.3u 100Base-TX/FX Fast Ethernet, IEEE802.3x Flow Control, IEEE802.1p QoS, IEEE802.1d Spanning Tree, IEEE802.3af (Optional), IEEE802.3at (Optional)					
Fiber Cable Type	Duplex Fiber		Single Fiber		Single Fiber	
Wavelength	1310nm Tx/Rx		1310nm Tx /1550nm Rx	1550nm Tx /1310nm Rx	1310nm Tx /1550nm Rx	1550nm Tx /1310nm Rx
Transmission Distance	Multi-mode:2Km; Single-mode:20-100Km; Category-5 twisted pairs:100m					
port	one RJ45 port for UTP/STP Twisted Pairs; one optical port: MM: SC/ST/FC (fiber size: 50,62.5/125um), SM: SC/ST/FC (fiber size: 9/125um)					
Conversion Mean	Media conversion, store-and-forward/cut-through					
MAC address table	1K					
Buffer space	1Mbit					
Flow Control	Full duplex: flow control; Half duplex: back pressure					
Delay	store-and-forward: 9.6us; cut-through: 0.9us					
BER	<math>10^{-9}</math>					
MTBF	100,00 hours					
LED indicator	PWR (power supply); FX LINK/ACT (optical link/action), FDX (FX full duplex), TP LINK/ACT (twisted pair link/action), TP 100 (100m transmission rate of twisted pairs), FX 100 (20Km transmission rate of optical fiber)					
PoE (Optional)	15.4W or 30W (Optional)					
Power supply	DC 5V 1A (external), AC220 0.5A/DC-48 (internal) for non-PoE model					
power consumption	<math><2W</math> (for non-PoE model)					
Operating Temperature	-10°C ~ 55°C					
Operating humidity	5% - 90%					
Maintaining temperature	-40°C ~ 70°C					
Maintaining humidity	5% - 90% non-condensing					
Dimensions	26mm (H) * 70mm (W) * 94mm (D) (external power supply) 30mm (H) * 110mm (W) * 140mm (D) ( internal power supply)					