

# OEM-MK-1G-SFP

## 10/100/1000M Gigabit Ethernet Media Converter



This Gigabit Fiber Media Converter can convert Optical – Electric Ethernet signals between 10/100/1000M UTP interface (TX) and 1000M optical fiber interface (FX). The traditional 10/100/1000M gigabit Ethernet can be extended to the distance of more than 120km through optical fiber link. The performance and quality of the products are excellent because of adopting latest Gigabit IC from USA.

6 LED indicators could fully monitor the working conditions of converters. It is easy for users to observe and diagnose the failure of converters. External power supply Gigabit Converters could be used alone.

### Features

- Auto negotiation function allows UTP ports to auto select 10/100/1000M and Full Duplex or Half Duplex.
- The UTP port supports the connection of MDI/MDI-X auto crossover.
- Multimode Fiber: the max distance up to 224m/ 550m Single mode Fiber: the distance can be 20km, 40km, 80km, 120km, or more
- Supporting the max 1536 byte Ethernet packet
- Supporting flow control
- Adopting internal power supply

## Technical Indexes

Parameter	Specifications
Access mode	1000Mbps Gigabit Ethernet
Standard	IEEE802.3ab 1000Base-T , IEEE802.3z 1000Base-SX/LX/HX Gigabit Ethernet
Wavelength	850nm/1310nm/1550nm
Transmission distance	UTP cable: Cat 5e or Cat 6 (the max distance up to 100m) Fiber : multimode : 50/125, 62.5/125 $\mu$ m (the max distance up to 550/224m) Single mode : 8.3/125, 8.7/125, 9/125 $\mu$ m (the max distance up to 100km)
Port	One RJ45 port: 10/100/1000Mbps for connecting with STP/UTP category-5 twisted pairs One optical port: LC, SFP form factor, 1000Mbps
Conversion means	Media conversion
MAC Addresss Table	4K
Data Buffer	256K
Flow Control	Full Duplex: IEEE802.3x Half Duplex: back pressure.
BER	<10 <sup>-9</sup>
MTBF	100,000 hours
LED indicator	POWER : On when +5V power available. TX 100: On when TX speed is 100Mbps TX 1000: On when TX speed is 1000Mbps TX Act: On when TX connection is good. Blinks when TX data is transmitting FDX: On when TX full-duplex mode is active. Off when TX half-duplex mode is active. Blinks when collision signal is present. FX Act: On when FX connection is good. Blinks when TP data is transmitting.
Dip Switch Setting	Switch 1 : OFF: Disable LFP function. ON: Enable LFP function. Switch 2 : OFF: Switch mode; ON: Pass through mode
Power	External: AC 110 ~ 240V to DC 5V; DC48V to DC 5V
Operating temperature	-10~55°C
Operating humidity	5%~90%
Maintaining temperature	-20~70°C
Maintaining humidity	5% ~ 90% non-condensing
Dimensions	70mm (W) * 93mm (D)*26 mm (H) (external power supply)