

## Media Converter

10/100M



### OVERVIEW

Kimtech's Ethernet media converter can interconvert electrical signals of 10Base-T and 100Base-TX twisted pairs with optical signals of 100Base-FX. It extends the network transmission distance from 100m via copper cables to 120km via fiber optical cable. It enables the data to transmit in two different mediums of electrical and optical networks either by the technology of data link L2 store-and-forward, or by the one of PHY L1 cut-through). It supports transmission in multi-mode dual fiber, single-mode dual fiber, single-mode single fiber.

### KEY FEATURES

- 0/100Mbps auto-sensed, facilitating network upgrade
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- Built-in efficient switching core to implement flow control and reduce broadcast packets
- Full-duplex and half-duplex auto-sensed
- Supporting automatic cross connection of twisted pair interfaces, facilitating system commissioning and installation
- Supporting Link Failure Alert (LFA) with optional dip-switch(unique)
- Supporting half /full-duplex of FX and link failure alert with optional dip-switch
- Supporting 10/100Mbps store-and-forward and 100Mbps cut-through transmission with optional dip-switch(unique)
- Supporting low-timelag transmission
- Supporting the transmission of extra-long packets up to1600 bytes
- Supporting the transmission of extra-long VLAN packets
- Supporting Quality of Service (QoS) , ensuring the transmission of VoIP packets
- Supporting STP to form a redundant network
- Extremely low power consumption (less than 2W), low heat, reliable and stable performance, and long lifetime

### APPLICATIONS

- 10/100Mbps fast optical Ethernet long-distance transmitting network

## SPECIFICATION

Parameter	Specifications
Access mode	10/100Mbps
Standard	IEEE802.3 10Base-T, IEEE802.3u 100Base-TX ,100Base-FX
Wavelength	Multimode:850/1310nm; Single-mode:1310/1550nm (Option)
Distance	Category-5 twisted pair: 100m Fiber: multi-mode 50/125, 62.5/125μm (the max distance up to(220m or 550m) Fiber: Single -mode 8/125, 8.7/125, 9/125, 10/125μm (the max distance up to 20 -80km)
Port	One RJ45 port: <ul style="list-style-type: none"> <li>For connecting STP/UTP category-5 twisted pairs</li> </ul> One optical port: <ul style="list-style-type: none"> <li>Multi-mode, dual fiber: SC (50, 62.5/125μm)</li> <li>Single mode, dual fiber: SC or FC (9/125μm)</li> <li>Single mode Single fiber: SC or FC (9/125μm)</li> </ul>
Conversion means	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: 9.6μs; cut-through: 0.9μs
BER	<10 <sup>-9</sup>
MTBF	100,000 hours
LED indicator	PWR (power supply), FX LINK (optical link action), TP LINK1000 (twisted pair link1000M), TP LINK100 (twisted pair link 100M), TP ACT (twisted pair packet forwarding)
Power supply	DC5V 1A (external), AC220 0.5A/DC-48 (internal)
Power consumption	<2W
Operating temperature	-10~55°C
Operating humidity	5%~90%
Maintaining temperature	-40~70°C
Maintaining humidity	5% ~ 90% non-condensing
Dimensions	External power supply: 26mmx 70mm x 95mm

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