



## 100M Fast Ethernet Media Converter



### GENERAL INFORMATION:

Due to its unique function of link failure alert between electrical port and optical one, the intelligent 10/100M adaptive fast Ethernet media converter can replace the media converter with network management to greatly reduce the system cost.

This 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 120 km 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 and single mode single fiber.

### PRODUCT CHARACTER:

- 10/100Mbps auto-sensed, facilitating network upgrade
- 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)
- 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-time lag transmission
- 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
- Supporting STP to form a redundant network
- Extremely low power consumption (less than 2W), low heat, reliable and stable performance, and long lifetime;
- Options in single mode dual fiber, multi-mode dual fiber, and single mode in single fiber

**Typical Application:**

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

**TECHNICAL SPECIFICATION:****Optical Port:**

Support 100Base-FX

- 1) Adopt standard 1\*9 pin optical transceiver module;
- 2) Wavelength: 850nm or 1310nm in multi-mode,  
1310nm or 1550nm in single-mode;
- 3) SC/ST/FC optical connectors are selectable.
- 4) Transmission distance: Up to 120km ;

**Ethernet Copper Port:**

Data rate: 10/100Mbps;

- 1) Auto-negotiate on Full/Half duplex topology;
- 2) Connector: UTP RJ45 connector
- 3) Auto MDI/MDI-X

**environment condition**

Operating temperature: 0C~+50 C

Storage temperature: -20 C~+70 C

Relative temperature: 95% (uncondensed)

**Power supply**

working voltage range wide, good

anti-disturb and Isolation, work stable

option I - DC-48V, range DC-36V~DC-72C

option I - AC220, range AC160V~AC240V