**Media Converter**

# General Description

The media converter transform the transmission media of Ethernet signal from CAT5 to optical fiber. it can extend the transmission distance to several kilometer or hundred kilometer.

Using media converter is a economical solution to achieve long distance transmission base on

current status. Gigabit media converter can transmit 500M by Multimode and 120km by singlemode.the fiber connector can be optional Among SC, ST, FC, LC, SFPetc.



*Features*

1. Standard Protocol: IEEE802.3 10 Base-T standard IEEE 802.3u 100Base-TX and IEEE802.3z standard.
2. Built in high efficiency SRAM for packet buffer, with 1K-entry lookup table and 4-way associative hash algorithm.
3. Half duplex: back pressure flow control Full duplex: IEEE802.3x flow control
4. Automatic identification of MDI/MDI-X cross line.
5. Support jumbo packet 9K Bytes.
6. Both external and internal power supply are available.
7. Fiber connector: Choice from SC,ST,FC or LC connector for multimode and single mode and SFP for inserting.
8. LED display for easy monitoring of device status
9. Transmission distance can reach 500M for multimode and 120KM for single mode 10.Can be rack mounted in 14 slots chassis(external Power supply)

**SPECIFICATION**

**Media Converter**

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| Item | | Specification/Term |
| 1 | Item number | WT-SFP-1315 |
| 2 | Standard | IEEE802.3u,10/100/1000Base-T,1000Base-SX/LX,IEEE802.3ah,  IEEE802.3z/ab |
| 3 | Flow control | IEEE8.2.3x port flow control and backpressure control |
| 4 | Transmission speed | 10M/100/1000M auto-negotication |
| 5 | Transmission mode | Full-duplex/semiduplex(auto-negotiation) |
| 6 | Conversion mode | Storage transmission |
| 7 | MAC address | VLAN 4K |
| 8 | Buffer space | 128KB |
| 9 | Packet length | Storage transmission:9728Bytes,straight-through,infinite. |
| 10 | Time-delay | 9.6us |
| 11 | Bit error rate | <1/1000000000 |
| 12 | MTBF | 100,000 hours |
| 13 | Power supply | AC100~265V 50/60Hz / DC5V 1A |
| 14 | Power dissipation | <2.5W |
| 15 | Interface | Eletric port:RJ45,Fiber port:SC/FC or SFP |
| 16 | Twisted-pair | Cat.5,Cat.6 |
| 17 | Multimode fiber | 50/125,62.5/125um |
| 18 | Singlemode fiber | 8/125,8.3/125,9/125um |
| 19 | Wavelengh | 850nm/1310nm/1550nm |
| 20 | Transmit distance | SFP Supported |
|  | 1）Dual fiber multimode | 550m |
|  | 2) Dual fiber single mode | 20/40/60/80/100/120Km |
|  | 3）single fiber single mode | 20/40/60/80Km |
|  | 4）Cat.5 twisted-pair | 100m |
| 21 | Operating temperature | 0~50℃ |
| 22 | Storage temperature | -20~70℃ |
| 23 | Humidity | 5%~90% (no condensation) |
| 24 | Size | 115 \* 77 \* 26mm (L\*W\*H)(card type without metal box） 118 \* 87 \* 28mm(L\*W\*H)(with metal box)  158\*128\*32mm(L\*W\*H)(Built-in power supply) |

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# Technical Parameter

|  |  |  |
| --- | --- | --- |
|  | ***10/100/1000M Multimode***  ***Media converter*** | ***10/100/1000M Single***  ***Media converter*** |
| ***Cable*** | MM fiber/twist pair | SM fiber/twist pair |
| ***Operation Mode*** | full duplex mode or half duplex mode | |
| ***Connector*** | One UTP RJ-45connector,oneSC/ST/FC or one LC connector | |
| ***Power Supply*** | Adapter (External): 110-265VAC(48V DC) input, 5V1A DC output  Power (Internal): 110-265V AC(48V DC) input, 5V1A DC output | |
| ***Jumbo Packet*** | 9K Bytes. | |
| ***Environmental***  ***temperature*** | 0~50 degrees | |
| ***Transfer Fiber*** | multi-mode: 50/125, 62.5/125 or 100/140μm  single mode:: 8.3/125, 8.7/125, 9/125 or 10/125μm | |
| ***Ralative Humidity*** | 5%-90% | |
| ***Size*** | 94mm x 71mm x 26mm (Power external type)  150mm x 110mm x 26mm(Power internal type) | |