深圳市源拓光电技术有限公司
SHENZHEN WIN TOP OPTICAL TECHNOLOGY CO.,LTD.

WT-8110SB-11-40B

Fast Ethernet Media Converter

Overview

- In accordance with Ethernet standards IEEE802.3 10/100Base-TX and 100Base-FX
- Supported Ports: SC for optical fiber; RJ45 for twisted pair
- Auto-adaptation rate and full/half-duplex mode supported at twisted pair port
- Auto MDI/MDIX supported without need of cable selection
- Up to 6 LEDs for status indication of optical power port and UTP port
- External and built-in DC power supplies provided
- Conflicting frames detection in half-duplex and flow control in full duplex supported
- Auto-negotiation và speed autosensing.

WINTOP WT-8110SB-11-40A is Fast Ethernet Media Converter used for optical transmission via high-speed Ethernet. It is capable of switching between twisted pair and optical and relaying across 10/100 Base-TX and 100Base-FX network segments, meeting long-distance, high-speed and high-broadband Fast Ethernet workgroup users' needs, achieving high-speed remote interconnection for up to 40 km's relay-free computer data network. With steady and reliable performance, design in accordance with Ethernet standard and lightning protection, it is particularly applicable to a wide range of fields requiring a variety of broadband data network and high-reliability data transmission or dedicated IP data transfer network, such as telecommunication, cable television, railway, military, finance and securities, customs, civil aviation, shipping, power, water conservancy and oilfield.., and is an ideal type of facility to build broadband campus network, cable TV and intelligent broadband FTTB/FTTH networks.

Technical Parameters for 10/100M Adaptive Fast Ethernet Optical Media Converter	
Number of Network Ports	1 channel
Number of Optical Ports	1 channel
NIC Transmission Rate	10/100 Mbit/s
NIC Transmission Mode	10/100M adaptive with support for automatic inversion of MDI/MDIX
Optical Port Transmission Rate	100Mbit/s
Operating Voltage	DC 5V
Overall Power	1W
Network Ports	RJ45 port
Optical Specifications	Optical Port: SC Single-Mode Wavelength: TX 1550/ RX 1310nm Optical Power (dBm): -5 ~ 0 Receiving Sensitivity (dBm): -34 Transmission Range (km): 40Km
Data Channel	IEEE802.3x and collision base backpressure supported
Working Mode	Full/half duplex supported
Transmission Rate	100Mbit/s with error rate of zero
Power Adapter	AC / DC Power Adapter; Input: 100-240V AC, 50/60Hz Output: 5V DC

Operating Humidity	Operating Temperature: 0 ^{0}C -> + 55 ^{0}C Storage Temperature: -20 ^{0}C -> + 70 ^{0}C Humidity: 5% to 90%

Application:

- For integrated data network for multimedia such as image, voice and etc.
- For point-to-point computer data transmission
- For computer data transmission network in a wide range of business application For broadband campus network, cable TV and intelligent FTTB/FTTH data tape
- In combination with switchboard or other computer network facilitates for: chain-type, star-type and ring-type network and other computer networks

Quality Assurance: MTBF > 100,000 hours

Remarks and Notes

a.	Identification of Media Converter	TX - transmitting terminal; RX - receiving terminal;
b.	PWR	Power Indicator Light "ON" means normal operation of DC 5V power supply adaptor.
c.	100M Indicator Light	"ON" means the rate of the electric port is 100 Mbps, while "OFF" means the rate is 10 Mbps.
d.	ACT (FP)	"ON" means connectivity of the optical channel; "FLASH" means data transfer in the channel; "OFF" means non-connectivity of the optical channel.
e.	LINK/ACT (TP)	"ON" means connectivity of the electric circuit; "FLASH" means data transfer in the circuit; "OFF" means non-connectivity of the electric circuit.
f.	SD Indicator Light	"ON" means input of optical signal; "OFF" means non input.
g.	FDX/COL:	"ON" means full duplex electric port; "OFF" means half-duplex electric port.
h.	UTP	Non-shielded twisted pair port;