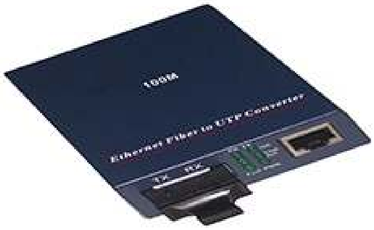
10/100M Fiber Media Converter

Model:AZ-100M

Overview:

AZ-100M TX/RX adaptive Ethernet optical transceiver can interconvert the electric signal of 100Base–TX twisted pair and optical signal of 100Base-TX. It extends the network transmission range from 100m to 100Km (single mode optical fiber). Its typical application is Ethernet long range



interconnection, such as the interconnection between the equipment room of community with MAN. No configuration of the switch is needed during connection due to the adaptive function. The newly added lightning protection function guarantees the safety of the equipment.

Features:

- Conforms to IEEE802.3, IEEE802.3u (10Base-T, 100Base-TX,100BaseT-FX) ,IEEE802.3x,IEEE802.1q VLAN,IEEE802.1p QoS international standard;
- brings 1M buffer, supports 2K MAC address;
- isolates network conflict and broadcasting package effectively, has the function of preventing broadcasting storm;
- supports 802.1Q and 16 groups of VLAN;
- built-in power supply or built-out power supply for option;
- support both 10/100M full/half duplex self-adaptive;
- delay time:<150ns;
- provide indicator lamps, indicating the device's work status: power, optical signal, electrical signal etc;
- meet FCC class A and CE standard;

100Base-FX Optical interface:

Connector: SC,FC or ST(can be chosen by customer)
Wavelength: 1310nm,1550nm or 850nm(can be chosen by customer)
Optical fiber category:

- single-mode 8.3/125, 8.7/125, 9/125,10/125um
- multi-mode 50/125, 62.5/125,100/140um

multi- mode connection: transmitting range can reach 5 kilometers as farthest;
single-mode connection: transmitting range can reach 120 kilometers.

10/100Base-TX:

UTP RJ45 connector (coaxial, twisted pair)
Cable type: non-shielded 5 class cable Cat.5UTP, can transmit 100 meters

Optical Specification :

Fiber connector	SC/ST	SC	SC	SC
type	multimode	Single mode	Single mode	Single mode
wavelength	850/1310nm	1310nm	1310nm	1310nm
Transmission distance	2km	25km	40km	60km
TX send power(min)	-19.0dBm	-15dBm	-9.0dBm	-4.0dBm
TX send power(max)	-12.0dBm	-9.0dBm	-5.0dBm	0dBm
Receive sensitivity	< -30dBm	< -30dBm	< -33dBm	<-36dBm
Link Budget	11.0dBm	15.0dBm	24.0dBm	32.0dBm

Power supply:

working voltage range wide, good
anti-disturb and Isolation, work stable option
I – DC-48V,range DC-36V~DC-72C option
II – AC220V,range AC160V~AC250V
Power Consumption: <=3 Watts

Dimension:

95mm(L)x70mm(W)x26mm(H)

Environment condition:

Operating temperature:0C~+55 C
Storage temperature:-20 C~+70 C
Relative temperature: 95%

AZ-100M-02	Multimode Fiber Media Converter,100Base-TX to 100Base-FX Ethernet converter, 10/100Mbps,1310nm or 850nm,2Km,power AC220V or DC48V
AZ-100M-20	Fiber Media Converter,100Base-TX to 100Base-FX optical Ethernet converter, 10/100Mbps,single mode,1310nm ,20Km,power AC220V or DC48V
AZ-100M-40	Fiber Media Converter,100Base-TX to 100Base-FX optical Ethernet converter, 10/100Mbps,single mode,1310nm ,40Km,power AC220V or DC48V
AZ-100M-60	Fiber Media Converter,100Base-TX to 100Base-FX optical Ethernet converter, 10/100Mbps,single mode,1310nm ,60Km,power AC220V or DC48V
AZ-100M-80	Fiber Media Converter,100Base-TX to 100Base-FX optical Ethernet converter, 10/100Mbps,single mode,1550nm ,80Km,power AC220V or DC48V
AZ-100M-BI-20	WDM Fiber Media Converter,100Base-TX to 100Base-FX optical Ethernet converter, 10/100Mbps,single fiber,1310nm/1550nm ,20Km,power AC220V or DC48V
AZ-100M-BI-40	WDM Fiber Media Converter,100Base-TX to 100Base-FX optical Ethernet converter, 10/100Mbps,single fiber,1310nm/1550nm ,40Km,power AC220V or DC48V
AZ-100M-BI-60	WDM Fiber Media Converter,100Base-TX to 100Base-FX optical Ethernet converter, 10/100Mbps,single fiber media converter,1310nm/1550nm ,60Km,power AC220V or DC48V

Application: