

10/100M WDM Fiber Ethernet Media Converter

1. Product Description

The 10/100M ethernet media converter designed to convert 100BASE-FX fiber to 100Base-TX copper media or vice versa. It is a cost-effective solution for extending network transmission distance from 100m over copper cables to 120km over fiber optic cable. Designed under IEEE802.3u 10/100Base-TX and 100Base-FX standards. Adopting WDM technology, only need one fiber cable to transmit and receive data, which will save half cabling cost.



2. Features

- Support auto negotiation of 10/100Mbps and auto MDI/MDI-X for TP port
- Support auto full-duplex and half-duplex transmission mode for FX port
- Support Link Fault Pass Through (LFP)
- Adopts WDM technology, transmitting and receiving data on one single fiber
- Extend fiber transmission distance up to 120km
- Easy-to-view LED indicators provide status to monitor network activity easily
- Low power consumption, stable mechanical construction and reliable performance

3. Specification

Parameter	Specifications
Access mode	10/100Mbps
Standard	IEEE802.3 10Base-T Ethernet, IEEE802.3u, 100Base-FX Fast Ethernet, IEEE802.3x Flow Control
Wavelength	A: Tx1310nm/Rx1550nm, Tx1490/Rx1550 B: Tx1550nm/Rx1310nm, Tx1550/Rx1490
Transmission Distance	Single mode: 20/40/60/80/100/120km; Category-5 twisted pairs: 100m
Port	One RJ45 port: Connected to STP/UTP category-5 twisted pairs One Fiber port: SC/ST/ FC (9/125μm)
Conversion Mode	Store and Forward mode



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MAC address table	1K
Buffer space	Built in 128Kb RAM for data buffer
Flow control	Full duplex: flow control; Half duplex: back pressure mode
BER (Bit error rate)	<1/10000000000
MTBF	100,000 hours
LED indicator	PWR(power), FX Link/ACT (fiber link/action), TP Link/ACT (twisted pair link/action), FDX (FX full duplex mode), TP 100M(twisted pair transmission rate of 100M), SD(optical link action)
Power supply	External: AC220V DC12V/48V input, 5V1A output
Power consumption	< 2W
Operating temperature	-10~55°C
Operating humidity	5%~90%
Storage temperature	-40~70°C
Storage humidity	5% ~ 90% (non-condensing)
Dimensions	26mm (H) x 70mm (W) x 95mm (D) External Power 30mm (H) x 110mm (W) x 140mm (D) Built-in power 110mm(H)*22mm(W)*81mm(D) Module card

4. Ordering Information

Model No	Wavelength	Distance	Fiber Interface	Power Supply
OP-310-S35-20	TX1310/RX1550nm	20km	SC/ST/FC	External/Internal
OP-310-S53-20	TX1550/RX1310nm	20km	SC/ST/FC	External/Internal
OP-310-S35-40	TX1310/RX1550nm	40km	SC/ST/FC	External/Internal
OP-310-S53-40	TX1550/RX1310nm	40km	SC/ST/FC	External/Internal
OP-310-S35-60	TX1310/RX1550nm	60km	SC/ST/FC	External/Internal
OP-310-S53-60	TX1550/RX1310nm	60km	SC/ST/FC	External/Internal



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OP-310-S45-80	TX1490/RX1550nm	80km	SC/ST/FC	External/Internal
OP-310-S54-80	TX1550/RX1490nm	80km	SC/ST/FC	External/Internal
OP-310-S45-100	TX1490/RX1550nm	100km	SC/ST/FC	External/Internal
OP-310-S54-100	TX1550/RX1490nm	100km	SC/ST/FC	External/Internal