P8100G Gigabit Media Converter

PoE Ethernet to fiber media converter

- Support 1000Base-FX optical fiber transmission standard
- The longest transmission distance can reach 80Km
- 10/100/1000Mbps, full duplex/half duplex auto negotiation
- Support LFP (Link Failover) function
- One-key electric port 10M mandatory speed limit
- Support half-duplex back pressure control and full-duplex flow control
- Support IEEE 802.3 af/at standard

Product Overview

The P8100G Media Converterr can perform photoelectric conversion between 10/100/1000Base-T and 1000Base-FX networks. The product contains one 10/100/1000M electrical port and one 1000M optical port, which can meet the needs of users of fast Ethernet working groups at long distances, high speeds and high bandwidths, and achieve transmission distances up to 100KM. The product design complies with IEEE802.3,IEEE802.3u,IEEE802.3ab,10/100/100Base-TX,1000Base-FX standards.The product supports POE power supply and LFP

(link failover function),which is especially suitable for various broadband data networks and reliability data required for telecommunications, cable TV, railways, military, financial securities, customs, civil aviation, shipping, power, water conservancy, oil fields, etc. Or the establishment of an IP data transmission private network is the ideal equipment for building broadband campus networks, cable TV and intelligent broadband residential fiber-to-building and fiber-to-the-home.

Features

- 1 ×10/100/1000Base-T   1× 1000Base-FX
- Support IEEE802.3af/at standard
- One-key electric port 10M mandatory speed limit

- Support 1000Base-FX optical fiber transmission standard
- 10/100/1000Mbps, full duplex/half duplex auto negotiation
- Support one key to turn on/off LFP (link failover)

Characteristics

Standard

IEEE 802.3   10Base-T

IEEE 802.3u   100Base-T

IEEE 802.3ab   1000Base-T

IEEE 802.3z   1000Base-FX

IEEE 802.3af/at

Interfaces

Electrical port：1x（RJ45） 10/100/1000Base-T

Optical port：1x（SFP） 1000Base-FX

Optical port characteristics

Rate：100/1000Mbps

Wavelength：single-mode ： 1310nm/1550nm

　　　　　　　Multimode：850nm

Transmission distance：single-mode：2Km

　　　　　　　　　　　Multimode：20/40/60/80Km

Interface type：SFP

Electrical port characteristics

Rate：10/100/1000Mbps adaptive

Working mode：full duplex / half duplex

Transmission distance：0~100m

Interface type：RJ45

LED

PWR, Link/Act FP, Link/Act TP, 1000M, SD, POE

Power requirements

Input voltage: DC47~57V

SIze： 94mmx70mmx26mm（L*W*H）

Environmental restrictions

Operating temperature: -20 ~ 60°C (-4 ~ 140°F)

Storage temperature: -20 ~ 70°C (-4 ~ 158°F)

Relative humidity: 5 ~ 90% (non-condensing)

MTBF

Time : 500000 h

Warranty

Quality assurance : 3 year

Fiber characteristics

	1000BaseFX	
	single-mode	Multimode
wavelength	850 nm	1310 /1550nm
Maximum transmit	-3 dBm	0 dBm
Minimum transmit	-9 dBm	-10 dBm
Receive sensitivity	-19 dBm	-22 dBm
Link budget	10 dB	12 dB
Typical distance	550 m	20 km
saturation	-3 dBm	-3 dBm

Size（mm）
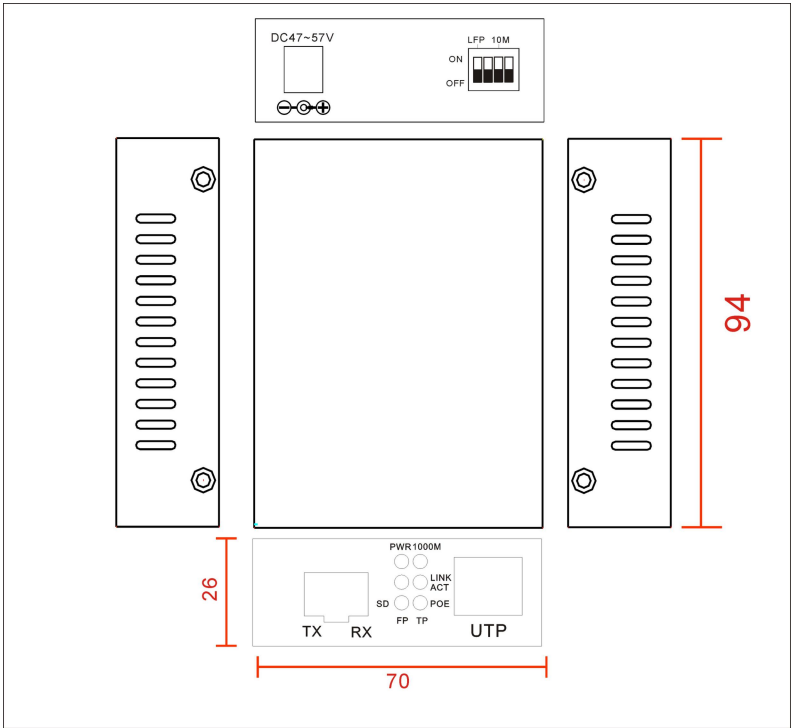
Ordering Information

models	Interface type			
	10/100BaseT	10/100/1000BaseT	100/1000BaseFX single-mode	100/1000BaseFX Multimode
P8100G	-	1	1	

packing list

- One optical fiber transceiver
- Installation accessories
- user's Guide
- Warranty Card
- Certificate of conformity