



Model

MC 220P

Gigabit PoE Ethernet to SFP Media Converter

1. Product introduction

The MC220P Media Converter can perform photoelectric conversion between 10/100/1000Base-TX 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, 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.

2. Performance characteristics

1. Support 1000Base-FX optical fiber transmission standard
2. The longest transmission distance can reach 80Km
3. 10/100/1000Mbps, full duplex/half duplex auto negotiation
4. Support LFP (Link Failover) function
5. One-key electric port 10M mandatory speed limit
6. Support half-duplex back pressure control and full-duplex flow control
7. Support IEEE802.3AF/AT standard

3. Features

1. 1 × 10/100/1000BaseT(X) 1 × 1000BaseFX
2. Support IEEE802.3AF/AT standard
3. One-key electric port 10M mandatory speed limit
4. Support 1000Base-FX optical fiber transmission standard
5. 10/100/1000Mbps, full duplex/half duplex auto negotiation
6. Support one key to turn on/off LFP (link failover)

4. Characteristics

Standard

IEEE 802.3 10BaseT

IEEE 802.3u 100BaseT and 100BaseFX

IEEE 802.3z 1000BaseFX and 1000BaseT

IEEE802.3AF/AT

Interfaces

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

Optical port: 1x(SFP) 1000Base-Fx

Optical port characteristics

Rate: 100/1000Mbps

Wavelength: Single-mode : 1310nm/1550nm

Multimode: 1310nm

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, SPD, 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)

5. Fiber characteristics

	100/1000BaseFX	
	single-mode	Multimode
Wavelength	850 nm	1310 /1550nm
Maximum transmit	-3 dBm	0 dBm
Minimum transmit	-8 dBm	-10 dBm
Receive sensitivity	-19 dBm	-32 dBm
Link budget	11 dB	22 dB
Typical distance	2km ^a 550 m ^b	20 km ^c
saturation	-6 dBm	-3 dBm

a. 50/125um, b. 62.5/125 um, c. 9/125 um