

## 10/100M Media Converter

### DESCRIPTION

10/100Mbps auto-negotiation Media Converter is the network communication device that realizing smooth network upgrade without any additional cost. It is high-performance, cost effective and flexible solutions for a wide range of applications in the field of LAN campus network. It completely conforms to 10Base-T, 100Base-TX, 100Base-FX and IEEE 802.3x standards, and can connect with Person Computer, SERVER, HUB and SWITCH. It can be set into full/half duplex auto-negotiation by manual, and it has two transmission mode: SM and MM, and its interface has many selectable optic fiber connectors and RJ-45 connector.



### FEATURES

- Complies with IEEE 802.3 10 Base-T standard.
- Complies with IEEE 802.3u 10/100 Base-TX/FX standard
- Complies with IEEE 802.3X standard
- 10/100/ Mbps port with full/half duplex auto-negotiation
- Back pressure flow control for full duplex
- Twisted-pair connector: NODE/HUB or SWITCH (5 class UTP)
- Back pressure flow control for full/half duplex IEEE802.3X
- Automatic identification of MDI/MDI-X cross-line
- speed auto sensing
- Complies with FCC, 15 CLASS A , RoHS and CE MARK



## TECHINCAL SPECIFICATIONS

Parameter	Specifications	
Standard Protocol	IEEE802.3 10 Base-T standard	
	IEEE802.3u 10/100Base-TX/FX standard	
	IEEE 802.3d standard.	
	IEEE 802.3Q standard.	
Band Width	RJ 45 Port: 10/100Mbps	Optical Port: 155Mbps
Operation Mode	Full /Half duplex mode	
Connectors	UTP: RJ-45	Fiber connector: SC/ST/FC
Operation Mode	Full /Half duplex mode	
LED Indicators	POWER, FPL,10/100, FRX, TRX , FDX.	
Power Supply	Internal	AC110-250V/50Hz
		DC -48V
	External	DC-5V
	Power Consumption	≤5W
Environmental Parameters	Work Temperature	-10°C-55°C
	Storage Temperature	-40°C-70°C
	Humidity	5%~90% non-condensing
TP Cable	Cat5 UTP cable (the max distance up to 100m)	
Fiber Cable	8. 3/125, 8. 7/125, 9/125, 10/125μm(the max distance up to 20 -120km)	
	50/125, 62. 5/125μm(the max distance up to 2km or 5km)	
MTBF (Hours)	100,000 hours	
Dimensions(mm)	115 * 77 * 26mm (L*W*H)(card type without metal box)	
	94mm*70mm*25mm(L*W*H) (External power supply)	
	140mm*110mm*30mm(L*W*H) (Internal power supply)	

## LED INDICATOR LAMPS

LED indicator lamp	Status	Explanation
FX Link/Act	On	Connection status display for fiber link. "ON" indicates that Fiber link is in correct connection.
	Blink	Active status display of fiber link "Blink" indicates packet goes through Fx end.
TP Link/Act	On	Connection status display for electric link. "ON" indicates that electric link is in correct connection.
	Blink	Active status display of electric link "Blink" indicates packet goes through Tx end.
DUP	On	Transceiver works in the full duplex mode.
	Off	Transceiver works in the half duplex mode.
PWR	On	Power is on and normal.
SD	On	Fiber signal is detected.
100	On	Transfer rate of electric interface is 100Mbps.
	Off	Rate of electric interface is 10Mbps

## Ordering Information

Part Number	wavelength	Fiber Mode	TX power (dBm)	RX Sen. (dBm)	Distance
GM-1100-02	1310nm	MM,Duplex	-22 to -12	≤-30	2km
GM-1100-L2	1310nm	SM, Duplex	-5 to 0	≤-28	20km
GM-1100-L4	1310nm	SM, Duplex	-5 to 0	≤-28	40km
GM-1100-L6	1310nm	SM, Duplex	-5 to 0	≤-28	60km
GM-1100-L8	1550nm	SM, Duplex	-5 to 0	≤-28	80km
GM-1100-10	1550nm	SM, Duplex	-5 to 0	≤-28	100km
GM-1100-12	1550nm	SM, Duplex	-2 to 3	≤-28	120km
GM-1101-L2A	T1310/R1550	SM, Simplex	-5 to 0	≤-28	20km
GM-1101-L2B	T1550/R1310	SM, Simplex	-5 to 0	≤-28	20km
GM-1101-L4A	T1310/R1550	SM, Simplex	-5 to 0	≤-28	40km
GM-1101-L4B	T1550/R1310	SM, Simplex	-5 to 0	≤-28	40km
GM-1101-L8A	T1490/R1550	SM, Simplex	-3 to 3	≤-37	80km
GM-1101-L8B	T1550/R1490	SM, Simplex	-3 to 3	≤-37	80km