Overview The Gigabit Ethernet Media Converter

applications.

VALUE Gigabit Ethernet

Media Converter

21.99.1199

User manual

Please read the manual before using!

The manual may be changed without prior notice.

ltem	Specifications						
MC-GE-MM	10/100/1000M, MMDF 550m~2km, SC/FC/ST						
MC-GE-SM	10/100/1000M, SMDF 20km~120km, SC/FC/ST						
MC-GE-WDM	10/100/1000M, SMSF20km~120km, SC/FC/ST						
MC-GE- SFP	10/100/1000M, SFP slot						

converts 10/100/1000Base-T electrical signals

to 1000Base-FX optical signals. It provides an

economic way to extend the network

transmission distance from 100m over copper

cables to 100km over fiber optical cables. It

complies with IEEE802.3 10Base-T,

IEEE802.3u 100Base-TX, IEEE 802.3ab

1000Base-T, and IEEE802.3z 1000Base-X. It

supports auto full/half duplex, auto MDI/MID-X

and can be used for many different

Packing list	
Make sure that you receive the full package good condition. If anything is missing damaged, please contact us.	
Gigabit Ethernet Media 1 Converter	4
Power Adaptor (external) 1	
Power Line (internal) 1	
User Manual 1	

Те	chn	ica	۱p	bar	an	nete	ers							LED indi			
1-20000000		4x 10/100/1000Base-Tx	1x1000BaseFx				DC5V	<5W			71* 96*26mm	114*88*26mm		The LED indicators facilitates to monitor the working status and troubleshoot. Refer to the below table for the status of LED indicator.			
antrol of		k 10/100/1	24 26	ase-Tx				1			71* 96	114*88		LED	Status	Description	
	IEEE 802.3z 1000Base-X, IEEE802.3x Flow Control			UTP:≤250m @10Base-Tx;≤100m @100/1000Base-Tx	km @SMF	15 available			condensing	40~+75°C; 5%~90%, non-condensing		114*88*26mm	1		On	Fiber port connected and link good	
		2x 101001000BaseTx 1x 1000BaseFx	x1000BaseFx	9-Tx; ≤100m (Fiber: s2km @MMF; s120km @SMF	Ethernet port: RJ45 Fiber: SC/ST/FC/LC/SFP) available	DC5V	<3.5W	-10~+65°C; 10%~90%, non-condensing					FX LINK/ACT	Blink	Data sending and receiving on fiber port	
2 2 4 1000 P		34	-	0m @10Base	fiber: ≤2km (Ether Fiber: SC/ST			0~+65°C; 105	40~+75°C; 5%					Off	Fiber port disconnected o link error	
ILEEEBUZ.S TUBBRS-1, ILEEEBUZ.SU,TUUBBRS-1,XIFX, ILEEE BUZ.SBD TUUUBBRS-1 IEEE 802.3x F1000Base-X, IEEE802.3x F10w Control		1x10100Base-Tx x100B1000baseFx	1000bseFx	UTP:≤25			DC5V	3W	<3W	7-		114*88*26mm	40*110*30mm		On	Ethernet port connected and link good	
		1x101	1×100B/									114*8	140*1	TX LINK/ACT	Blink	Data sending and receiving on Ethernet port	
Standard		-	Ports	-	Keach	Connector	Voltage input	Power	Operating	Storage	Dimension	External:	Card:Internal:		Off	Ethernet port disconnected or link error	
-	-	al P					-	6	ope	Sto	Dime	Ē	Card:I	1000	On	Data rate is 100Mbps of Ethernet port	
			T					Bm	Bm	a a	5	Bm	1	100	On	Data rate is 100Mbps of Ethernet port	
Sensibility	s-17dBm	≤-17dBm	≤-22dBm	5-220Bm 5-24dBm	047-5	≤-24dBm	s-24dBm	≤-23dBm	≤-23dBm	<-23dBm	204-1	≤-23dBm		FDX	On	Full duplex on Etherne port	
5	Bm	1Bm	Bm			Bm	Bm	dBm	Bm	En en		Вm		PWR	On	Power supply is ok	
power	-10~-3dBm	-10~-3dBm	-9~-3dBm	5	IIIann~c-	-6~+1dBm	-2~+3dBm	-12~-4dBm	-9~-3dBm	-2~+3dBm	1	-2~+3dBm			Off	Power supply error	
Reach	550m	2km	20Km	401/	HUNIH	60Km	80-100Km	3km	10~20km	40~60km		60~100km		∕∆ Cau	A Caution		
wavelength	850nm	1310nm	1310nm	4660	IIIIncel	1550nm	1550nm	1310/1550nm	1310/1550nm	1310/1550nm		1490/1550nm		 The media converter is for indoor use; Cover the dust cap when the fiber port is n used; DON'T stare at the fiber port with nake eyes when it is working, or it may hurt yo eyes; WDM media converter should be in pairs. 			
Options	MC-GE-MM	MC-GE-MM	MC-GE-SM		MIC-20-0M	MC-GE-SM	MC-GE-SM	MC-GE-WDM 13	MC-GE-WDM 13			MC-GE-WDM 14					

Installation

Ethernet Port Connection

Connect the network device (work station, hub or switch) to the RJ-45 jack of the media converter by CAT5e or better TP cable. Please use quality RJ-45 and well-made patch cords. It auto identifies MDI or MDI-X cable.

1000Base Tx RJ45 Pinouts 8-pin RJ45

(iuuui)

Pin	Signal	Pin	Signal
1	TRD(0)+	5	TRD(2)-
2	TRD(0)-	6	TRD(1)-
3	TRD(1)+	7	TRD(3)+
4	TRD(2)+	8	TRD(3)-

Fiber Port Connection

For dual fiber port, connect TX of media converter with the RX of the network device, and RX of the media converter with the TX of the network device by a duplex fiber optic patch cord.

For single fiber optical port, connect the optical port of media converter with that of the network device by a simplex fiber optic patch cord.

Power connections

Connect the DC socket of media converter, and power supply with the power adapter.

We recommend to use our default power adapter. If not, make sure that the rated input voltage of power adapter is 5V.

✓ Check if the data rate of the both sides is 100Mbps ✓ Check if the duplex mode of the both sides is same

4. FX LINK/ACT is ON, but still problem in

✓ Check if wavelength of the both sides is same

✓ Check if the loss budget off fiber is not exceeded.

Trouble shooting

1. Power LED is OFF

- ✓ If installed on a desktop, check that the power adapter is securely connected.
- ✓ If installed in our chassis, check that the unit is fully seated in the slot.
- ✓ Verify that the power outlet has power output
- Try using another power adapter.

2. TX LINK/ACT LED is OFF

✓ Check if the connected device is powered ON and operating properly.

✓ Check that the TP cable is securely connected.

✓ Make sure that the TP cable does not exceed 100 meters.

3. FX LINK/ACT LED is OFF

communication

✓ Check if the connected device is powered ON and operating properly.

✓ Check that the fiber is securely connected.

✓ Make sure the TX and RX port is connected correctly.

✓ Test if the attenuation on the fiber cable does not exceed the acceptable values.