

Features

- Max. 2M buffer memory built in chip.
- Auto negotiation back pressure flow control for full duplex IEEE802.3 X and half duplex.
- Automatic identification of MDI/MDI-X cross line
- High-performance1.4Gbps memory bandwidth.
- LED display for PWR, link/activity, full/half duplex,100M,1000M
- Forward 1600 bytes packet for management;
- max. transmission distance can be 120km;Optional Features:
- Supports link fault pass through function (LFP);
- Supports for end fault function;
- Support EEPROM configuration;
- Pass all packets without address and CRC check;
- Forward fragments.

Standard

- IEEE 802.3 10 Base-T standard.
- IEEE 802.3u 100 Base-TX/FX standard.
- IEEE 802.3z 1000 Base-TX/FX standard.
- IEEE 802.3x Flow control standard.

Description

The media converter transmits the Ethernet signal transmission media from the CAT Cable to the optical fiber. It can extend the transmission distance up to 120km. Using a media converter is an economical solution to achieve long-distance transmission based on current status.

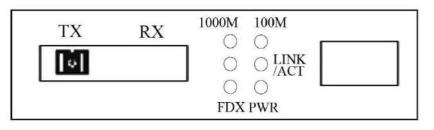
Specification

	Fiber Port	1port SC, FC/ST/LC optional			
	Fiber Type	Dual Fiber or BiDi			
Optical Specs.	Wavelength&	Dual Fiber: Multimode 850nm 550m; 1310nm 2km Single mode			
	Distance	1310nm, 1550nm from 10km to 120km BiDi: 1310/1550nm			
		2/10/20/40km;			
		1490/1550nm 60/80/100/120km			
Ethernet Specs.	Cable	Twisted-pair			
	Transmission Type	10/100/1000Mbps Full Duplex/Half Duplex			
	Distance	100meter			
BER	<1E ⁻⁹				
Data Buffer	2M				
Power	4w				
Power Temp. Variation	0.2mw /°C				
Operate Temp.	0~70°C				
Storage Temp.	-40~85°C				
Humidity	95% non-condensing				

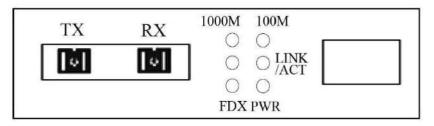
Power Supply	AC100~240V -50/60Hz +5V DC, -48VDC(optional)				
Weight	0.4KG				
Dimension	External power	95x70x26mm			
	Internal power	140x110x30mm			

Front Panel

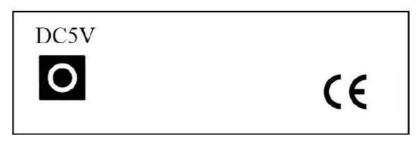
- 10/100/1000M BiDi SC front panel



- 10/100/1000M Dual SC front panel



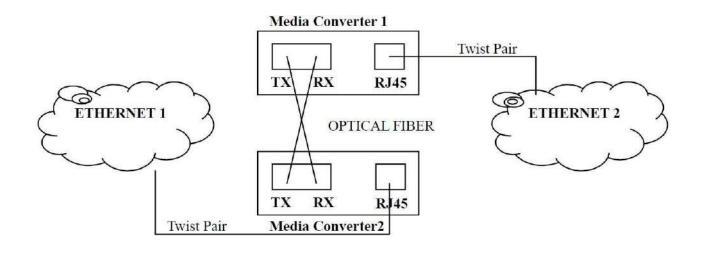
Back Panel



LED Indicator Description

LED		STATUS		
PWR	ON	Power ON		
	OFF	Power OFF		
FDX	ON	Full Duplex		
	OFF	Half Duplex		
100M	ON	100M Speed		
	OFF	Failed		
1000M	ON	1000M Speed		
	OFF	Failed		
100M-LINK/ACT	ON	Linked on UTP Port		
	FLASH	Activity		
	OFF	Not Linked		
1000M-LINK/ACT	ON	Linked on Fiber Port		
	FLASH	Activity		
	OFF	Not Linked		

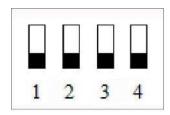
Application



Dip Switch

The top position is ON; the Low position is OFF

PIN 1	ON	LFP enable			
	OFF	LFP disable			
PIN 2	OFF	Store and forward switch			
PIN 3	OFF]			
PIN 2	OFF	Modified cut-through switch			
PIN 3	ON				
PIN 2	ON	Converter mode			
PIN 3	OFF				
PIN 2	ON	Auto change forward			
PIN 3	ON				
PIN 4	ON	TP force speed mode, duplex mode			



Ordering Information

Part Number	Rate	Wavelength(nm)	Distance(km)	Tx Power	Rx Sen. (db)	Fiber
AB-MCGE-20	10/100/1000Mbps	1310	20	-8~-3	-23	SM Dual SC
AB-MCGE-20-DC	10/100/1000Mbps	1310	20	-8~-3	-23	SM Dual SC

Note: All information in this document is subject to change without notice.

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