Alpha Bridge AB-MCFE-20 Datasheet

Features

- Supports 100Base-FX standard;
- Supports auto MDI-MDIX function;
- LED display for link/activity, full/half duplex, 10/100M
- Supports modified cut-through frame forwarding for low latency;
- Supports pure converter mode data forwarding for extremely low latency;
- Supports flow control for full and halt duplex operation;
- Bandwidth control;
- Forward 1600 bytes packet for management;
- max. transmission distance can be 120km;
- SC (default)/FC/ST supported.

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

- IEEE802.3 ETHERNET STANDARD
- IEEE802.3u FAST ETHERNET STANDARD
- IEEE802.3x FLOW CONTROL STANDARD
- IEEE802.3ab FRAME SIZE 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.

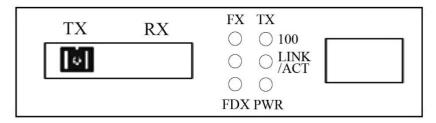
Specification

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	Fiber Port	1port SC, FC/ST/LC optional			
Outical Sugar	Fiber Type	Dual Fiber or BiDi			
Optical Specs.	Wavelength & Distance	Dual Fiber: Multimode 1310nm 2km Single mode 1310nm, 1550nm from 10km to 120 km BiDi: 1310/1550nm 2/10/20/40km; 1490/1550nm 60/80/100/120km			
	Cable	Twisted-pair			
Ethernet Specs.	Transmission Type 10/100Mbps Full Duplex/Half Duplex				
	Distance	100meter			
BER	<1E-9 1024kb 2.5w				
Data Buffer					
Power					
Power Temp. Variation	0.2mw /°C				

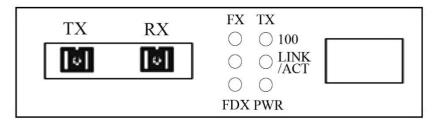
Operate Temp.		0~70°C			
Storage Temp.		-40~85°C			
Humidity		95% non-condensing			
Power Supply		AC100~240V -50/60Hz +5V DC, -48VDC (optional)			
Weight		0.4KG			
Dimension	External power	95x70x26mm			
	Internal power	140x110x30mm			

Front Panel

10/100M BiDi SC front panel



10/100M Dual SC front panel



Back Panel

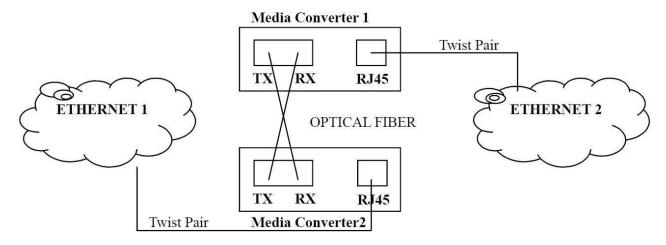


LED Indicator Description

LED	STATUS	STATUS			
PWR	ON	Power ON			
	OFF	Power OFF			
FDX	ON	Full Duplex			
	OFF	Half Duplex			
FX	ON	Transmit Fiber Optical Signal			
	OFF	No Fiber Optical Signal			
TX	ON	100Base-TX			
	OFF	No Ethernet Signal			
TX-LINK/ACT	ON	Linked on UTP Port			
	FLASH	Activity			
	OFF	Not Linked			
FX-LINK/ACT	ON	Linked on Fiber Port			

FLASH	Activity
OFF	Not Linked

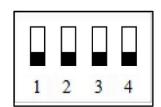
Application



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	Store and forward Switch		
PIN 2	OFF	Modified cut-through switch		
PIN 3	ON	wiodined cut-tillough switch		
PIN 2	ON	Converter mode		
PIN 3	OFF	Converter mode		
PIN 2	ON	Auto change forward		
PIN 3	ON	Auto change for ward		
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-MCFE-20	10/100Mbps	1310	20	-15~-3	-34	SM Dual SC

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

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