

GbE Media Converter Solution

AMC200 Series

- 10/100 Mbps port with full/half-duplex auto-negotiation
- IEEE802.3 10Base-T
- IEEE802.3u/100Base-TX/FX
- IEEE802.3x flow control
- 155 Mbps memory bandwidth
- Automatic identification of MDI/MDI-X cross-line
- Complies with FCC, 15 CLASS A, RoHS, and CE MARK



AMC200 Series Gigabit Ethernet Media Converter is an economical series of high-performance converters that comply with IEEE 802.3 standards. AMC200 GE converters transform the transmission media of Ethernet signal from CAT5 to optical fiber. It can extend the transmission distance from a few hundred meters to hundred kilometers.

This converter can be used as a standalone unit in point to point applications with external power supply modules or a plug-in module to fit the AMC 19-inch converter chassis to save space, and capital expenditure.

AMC200 converters are compatible with various SFPs for different applications. The platform provides high-density ports to allow operators to quickly and easily expand existing networks and services. AMC200 series offers compatibility with all existing Ethernet or Fast Ethernet devices in a network and provides high-performance data transmission with seamless cooperation with ACT routing and switching products.

Key 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
- High-performance 155 Mbps memory bandwidth
- Complies with FCC, 15 CLASS A, RoHS, and CE MARK

Application Diagram



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 100 Mbps.
	Off	Rate of electric interface is 10 Mbps

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.
Bandwidth	RJ 45 Port: 10/100 Mbps 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	AC: 110 V _{AC} to 250 V _{AC} / 50 Hz DC: -48 V _{DC}
External	DC-5V
Power Consumption	≤5W
Environmental Parameters	
Work Temperature	0 °C to 50 °C
Storage Temperature	-40 °C to 70 °C
Humidity	5 % to 90 % (non-condensing)
TP Cable	Cat5 UTP cable (max distance: up to 100 m)
Fiber Cable	8.3/125, 8.7/125, 9/125, 10/125 μm (max distance: 20 km to 120 km)

MTBF

50/125, 62.5/125 μ m (max distance: 2 km to 5 km)

Dimensions (L x W x H)

100,000 hours

115 mm x 77 mm x 26 mm (card type without metal box)

94 mm x 70 mm x 25 mm (external power supply)

140 mm x 110 mm x 30 mm (internal power supply)

Ordering Information

Product Name

AMC220-GE-D-US-25-AC

Product Description

AMC220 GE Media Converter, Single Mode, Dual Fiber, 1310RX/1310TX, 20KM
10/100/1000 Base-TX/SX/LX Bridge Converter, SC/UPC, AC Power

Contact Information

Ascent Communication Technology Ltd**AUSTRALIA**

140 William Street, Melbourne
Victoria 3000, AUSTRALIA
Phone: +61-3-8691 2902

HONG KONG SAR

Unit 9, 12th Floor, Wing Tuck Commercial Centre
177 Wing Lok Street, Sheung Wan, HONG KONG
Phone: +852-2851 4722

CHINA

Unit 1933, 600 Luban Road
200023, Shanghai CHINA
Phone: +86-21-60232616

USA

2710 Thomes Ave
Cheyenne, WY 82001, USA
Phone: +1-203 816 5188

EUROPE

Pfarrer-Bensheimer-Strasse 7a
55129 Mainz, GERMANY
Phone: +49 (0) 6136 926 3246

VIETNAM

15 /F TTC Building, Duy Tan Street
Cau Giay Dist., Hanoi, VIETNAM
Phone: +84 243 795 5917

WEB: www.ascentcomtec.com

EMAIL: sales@ascentcomtec.com

Specifications and product availability are subject to change without notice.

Copyright © 2018 Ascent Communication Technology Limited. All rights reserved.

Ver. ACT_AMC200_Media_Converter_Datasheet_V1a_Apr_2018