

GbE Media Converter Solution

AMC230 Series



- **Centralized Media Converter Platform**
- **IEEE 802.3x standards**
- **Local and Remote Module**
- **10/100M, 10/100/1000M, 10G OEO MC modules**
- **SM/MM, Single & Dual fiber, SFP, SFP+, XFP etc.**
- **Supports IEEE 802.X frame flow control for full-duplex mode**
- **SNMP management**

ACT AMC230 Series Gigabit Ethernet Media Converter is an economical series of high-performance converters that comply with IEEE 802.3 standards. AMC230 converters can supervise and configure in real time the situation of remotely manageable fiber media converters.

This converter can be used as a standard alone unit in point to point applications with external power supply modules or a plug-in module to fit the AMC 19 inch converter chassis with 16 slots to save space, and capital expenditure.

AMC230 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. AMC230 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

- Built-in IP-based Web interface
- Supports remote and local management
- Supports IEEE 802.3X frame flow control for full-duplex mode
- Store and forward mechanism
- Manual IP address setting/DHCP client for IP address assignment
- SNMP v1 / v2c monitor / private enterprise MIB
- Event trap and SNMP trap support
- Speed duplex mode configuration / flow control setting / bandwidth control on TP / fiber port
- Supports port status / Ethernet statistics on both TP and fiber interface
- Supports maximum frame size of 16 kB
- Loop detection / broadcast / multicast / unicast storm control
- Management VLAN / 16 IEEE 802.1Q VLAN groups / Q-in-Q VLAN
- 802.1p Tag Priority / IP address priority / IP DSCP option in
- Quality of Service mode and strict priority / Weighted Round Robin (WRR) QoS policies
- TS-1000 OAM / IEEE 802.3ah OAM / loop back test
- 16 TCP / UDP filter groups
- Password setting, IP setting and devices description setting through discovery utility
- Firmware upgrade via remote Web interface
- LED indicators for easy network diagnosing
- Reset Button at the front panel for the factory default reset
- Choice of fiber-connector from SC, LC, WDM, multi-mode / single-mode fiber /1000Base-SX / LX mini GBIC module

Fiber	Interface	Wavelength(nm)	Transmitting optical power (dBm)	Receiving sensitivity(dBm)	Transmission distance(km)	Loss allowed(dBm)
MM - D	ST/SC/FC	1310	-14 ~ -9	-34	2	10
SM- D	ST/SC/FC	1310	-13 ~ -4	-33	20	19
SM- D	SC	1310	-8 ~ -3	-35	40	27
SM- D	SC	1310	-5 ~ 0	-36	60	34
SM- D	SC	1550	-5 ~ -0	-36	80	27
SM- D	SC	1550	-5 ~ 0	-36	100	31
SM- D	SC	1550	-2 ~ 3	-37	120	35
SM- S	SC	1310/1550	-12 ~ -3	-35	20	Standard loss:1310nm 0.4/km 1550nm 0.25/km
SM- S	SC	1310/1550	-8 ~ -3	-35	30	
SM- S	SC	1310/1550	-5 ~ 0	-36	40~60	
SM- S	SC	1310/1550	-3 ~ 3	-36	60~80	

Specifications

Item	Description
Standards and Protocols	IEEE802.3x full duplex on 10BaseT, 100BaseTX, 1000BaseT IEEE802.3-2002 IEEE802.3u 100BaseTX IEEE802.3ab 1000BaseT IEEE802.3z 1000BaseX IEEE802.3ah-2004 IEEE 802.1d Spanning Tree IEEE 802.1w IEEE 802.1p QoS IEEE 802.1q VLAN TAG IEEE802.3X flow control
Connector	ST, SC, FC, LC
Operating Wavelength	Multi-mode: 850 nm, 1310 nm Single-mode: 1310 nm, 1550 nm
Optical Fibers	Multi-mode: 50/125, 62.5/125, 100/140 μ m Single-mode: 8.3/125, 8.7/125, 9/125, 10/125 μ m
Management Port	1 console (RJ45)
Serial Port Configuration	9600 bps/8 bit/none parity/1 stop bit/none low control
User Port	10/100BaseTX 10/100/1000BaseTX (RJ45), full/half duplex 100Base-FX 1000Base-FX (SFP module)
Fiber Link Option	Dual fiber/single fiber (WDM)
Max Frame Size	1518 Bytes (100M); 9728 Bytes (1000M)
Transmission Distance	Dual fiber: up to 100 km Single fiber: up to 80 km
Bandwidth Management	Supports bandwidth control using 64 kbps steps (N*64K)
LLCF	Supports Link Loss Carry Forward (LLCF)
Q-in-Q	Q-in-Q functionality
IEEE802.3ah OAM	AMC230 Series has two working modes: Master and Slave. The central office device runs in Master mode, and customer premise devices run in Slave mode. OAM functions originated from the Master device.
Standard Function	
Link Monitoring	Reports local events to a remote device including Critical Event (voltage and temperature abnormalities) and Dying Gasp (power down).
OAM Discovery	Searches for remote devices with IEEE802.3ah OAM functionality enabled, and negotiates with remote devices.
Working Temperature	0 °C to 60 °C
Working Humidity	5 % to 90 % RH (non-condensing)
Storage Temperature	-10 °C to 70 °C
Storage Humidity	5 % to 90 % RH (non-condensing)
Dimension	Local : 94mm (L) x 71mm (W) x 26mm (H), Remote:150mm (L) x 110mm (W) x 28mm (H)
Power Supply	Local: 85 V AC to 265 V AC, -40 V DC to -57 V DC Remote: 110-265V AC input, 5V1A DC output
Power Consumption	Remote: \leq 5W

Ordering Information

Item	Description
AMC-SHELF-16-AC2	AMC 16 slots Media Converter shelf, Dual AC power supply
AMC-EMS-MM	AMC Media Converter shelf management card
AMC230L-GE-D-US-20	AMC230 Local GE Media Converter, Dual Fiber, 20km, 1310RX/1310TX, 10/1000 Base-TX/SX/LX Bridge Converter, SC/UPC
AMC230R-GE-D-US-20-AC	AMC230 Remote GE Media Converter, Dual Fiber, 20km, 1310RX/1310TX, 10/100/1000 Base-TX/SX/LX Bridge Converter, SC/UPC, AC Power
AMC230L-GE-P-US	AMC230 Local GE Media Converter, SFP slot, 10/1000 Base-TX/SX/LX Bridge Converter, SFP not included
AMC230R-GE-P-US-AC	AMC230 Remote GE Media Converter, SFP slot, 10/100/1000 Base-TX/SX/LX Bridge Converter, SFP not included, AC Power
AMC230L-GE-S-US-20	AMC230 Local GE Media Converter, Single Fiber, 20km, 1310TX/1550RX, 10/1000 Base-TX/SX/LX Bridge Converter, SC/UPC
AMC230R-GE-S-US-20-AC	AMC230 Remote GE Media Converter, Single Fiber, 20km, 1310TX/1550RX, 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 © 2016 Ascent Communication Technology Limited. All rights reserved.

Ver. ACT_AMC230_Datasheet_V1c_Jun_2016