

GbE Media Converter Solution

AMC220 Series

- Full GbE Unmanaged Switch
- Industrial Grade
- 4×10/100/1000BaseT(X) ports
- 1×1000BaseX port
- Built-in overcurrent and reverse connection protection
- IP40 rating
- Hard aluminum alloy case
- DIN-rail and wall mounting
- Low power consumption
- Complies with IEEE802.3 standards



Ascent's AMC220E Gigabit Ethernet Media Converter is an industrial high-performance media converter that complies with IEEE 802.3 standards. It has 4 × Gigabit Ethernet RJ45 ports, and 1 fiber optic port making it suitable for applications that demand high bandwidth.

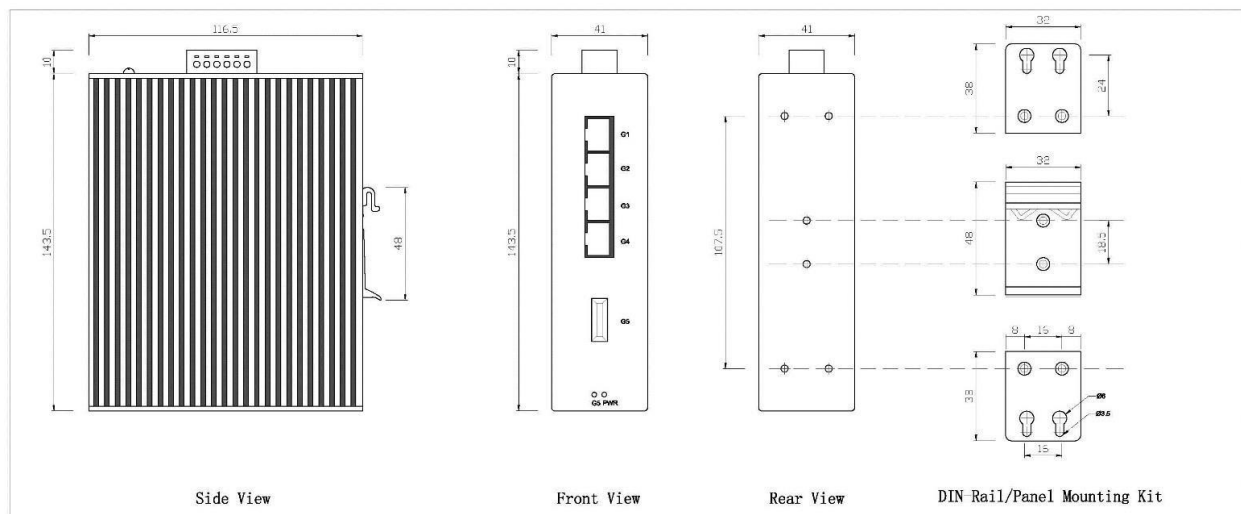
The industrial media converter features low power consumption, allowing for steady operations. It had zero packet losses in a 72-hour full load flow test.

AMC220E media converters have different options, integrated optical transceiver or interface with various SFPs for different applications. The platform provides high-density ports to allow operators to quickly and easily expand existing networks and services. AMC220E 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

- 4 × 10/100/1000Base-T(X) ports
- 1 × 1000Base-X port
- Redundant dual 12/24/48 VDC power inputs
- Built-in over-current protection, reverse connection protection
- -40 to 75 °C operating temperature range (WT models)
- No fan, low consumption, industrial design standard, industrial grade electronic components, environmental protection & lead-free production
- Hard aluminum alloy case (Not sheet metal), DIN-rail and wall mounting
- IP40 rating
- Without packet loss in 72 hours full load flow test

Application Diagram



Specifications

Technology

Standards	IEEE 802.3 for 10BaseT IEEE 802.3u for 100BaseT(X) IEEE 802.3ab for 1000BaseT(X) IEEE 802.3z for 1000BaseX IEEE 802.3x for Flow Control IEEE 802.3az for Energy-Efficient Ethernet
Flow Control	IEEE 802.3x Flow Control Back Pressure Flow Control

Switch Properties

Packet Forwarding Rate	8.928 Mpps
Processing Type	Store and Forward
MAC Table Size	1 K
Jumbo Frame Size	10 KByte
Backplane	12 G
Packet Buffer Size	1 Mbit

Interface

Fiber Ports	1000BaseX 1×9 Optical Transceiver
RJ45 Ports	10/100/1000BaseT(X) auto-negotiation speed Full/Half duplex mode MDI/MDI-X connection
LED	RJ45 Ports: Link G1 to G4, Act G1 to G4 Fiber Ports: Link/Act G5 Power: PWR

Power Requirements

Connection	1 removable 6-contact terminal block
Input Voltage	12/24/48VDC (9.6 to 60VDC), Redundant Dual Inputs
No-load Power	5W @ 24VDC
Full-load Power	8W @ 24VDC
Redundant Dual Inputs	Present
Reverse Polarity Protection	Present
Over current protection	Present

Physical Characteristics

Housing	Hard aluminum alloy case
IP Rating	IP40
Dimensions (W × H × D)	41 mm × 153.5 mm × 128 mm
Weight	570 g
Installation	DIN-rail mounting, wall mounting

Environmental Limits

Operating Temperature	Standard Models: -25 °C to 60 °C Wide Temp. Models: -40 °C to 75 °C
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Storage Temperature	-40 °C to 85 °C
Ambient Relative Humidity	5 % to 95% (non-condensing)

Standards and Certifications

EMI	FCC Part 15, CISPR (EN55022) class A
EMS	EN61000-4-2 (ESD), Level 4 EN61000-4-3 (RS), Level 3 EN61000-4-4 (EFT), Level 4 EN61000-4-5 (Surge), Level 4 EN61000-4-6 (CS), Level 3 EN61000-4-8, Level 5
Shock	IEC60068-2-27
Freefall	IEC 60068-2-32
Vibration	IEC60068-2-6

Ordering Information

Product Name	Product Description
AMC220E-GE-D-US-20-DC	Unmanaged Industrial GE Media Converter, 20km, 4x10/100/1000BaseT(X) ports, and 1 1000BaseX 1x9 Optical Transceiver. 9.6 to 60VDC, Redundant Dual Inputs, - 25 to 60 °C operating temperature
AMC220E-GE-D-US-20-DC-WT	Unmanaged Industrial GE Media Converter, 20km, 4x10/100/1000BaseT(X) ports, and 1 1000BaseX 1x9 Optical Transceiver. 9.6 to 60VDC, Redundant Dual Inputs, - 40 to 75 °C operating temperature

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