

MC0012AF

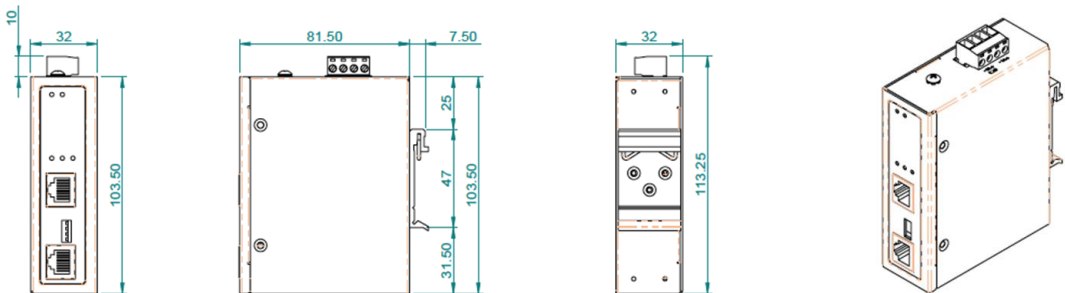
Gigabit Media Converter



This Rugged Industrial Gigabit Media converter is designed with hardened Marvell IC, It can tolerate extreme temperature in a harsh environment. Our ColdDesign technology will not only extent network distance, also reduce the excessive heat problem to a minimum. It accepts the input voltage from 12VDC to 56VDC. It is being rigorously tested for your Security, Transportation and Telco application.

- ▶ Industrial Hardened Gigabit Media converter
- ▶ Designed with hardened Marvell IC
- ▶ 1x10/100/1000M TX + 100/1000M SFP
- ▶ 48-56VDC, Operating temp: -40°C to +75°C

Dimension:



Technical Specifications

Gigabit Media Converter

Model#

MC0012AF

IEEE Standard

IEEE 802.3 10Base-T Ethernet / IEEE 802.3z 1000Base-X Gigabit Ethernet

IEEE 802.3u 100Base-TX Fast Ethernet

IEEE 802.3ab 1000Base-T Gigabit Ethernet

IEEE802.3x Flow Control and Back Pressure,

Switch Architecture

Back-plane (Switching Fabric): 4Gbps

Data Processing

Store and Forward

Flow Control

IEEE 802.3x Flow Control and Back Pressure

Jumbo Frame / MAC address table size

9KB / 2K

Packet buffer size

1 Mbits

Network connector

1xRJ-45 10/100/1000BaseT(X) auto negotiation

Auto MDI/MDI-X function

Full/Half duplex

1x SFP 100/1000M BaseX

Network Cable

UTP/STP above Cat.5e Cable / EIA/TIA-568 10-ohm (100m)

Protocol

CSMA/CD

Housing

Rugged Metal ,IP30 Protection

LED

PW1(power 1) Green: ON- power good, OFF-power failed

UTP LED: Green ON – Link/active

SFP LED: Green ON – SFP detected

DIP switch / Case Dimension (L x W x D)

To select SFP speed 100M or 1000M / 103.5mm x 32mm x 81.5mm

Reserve polarity protection & Overload current protection

Present

Power supply

4 pin terminal block with 12V-56V VDC Power Input, SW (Relay): Relay switch for alarm

Alarm Relay Contact

Relay outputs with current carrying capacity of 1 A @24VDC, Relay in short circuit mode when power fails. in open circuit mode when power supply is connected

Power consumption / Installation

2 W@48 VDC / DIN Rail mounting and Wall Mounting

Removable terminal block

Provide 4 pin terminal block / Wire range: 0.34mm² to 2.5mm² / Solid wire (AWG):12-24/14-22 / Stranded wire(AWG): 12-24/14-22 / Torque:5lb-In/0.5Nm/0.56Nm / Wire Strip length: 7-8mm

Operating temperature / Operating Humidity / Storage temperature

-40°C ~ 75°C fully tested / 5% to 95% (Non-condensing) / -40°C ~ 85°C

MTBF (mean time between failure)

510,304 hrs (MIL-HDBK-217F) at 25°C

Certifications

EN55022/24	ITE equipment
EN55011	Industrial, Scientific and Medical (ISM) equipment
Safety	IEC EN60950-1
EMC/EMS	CE, FCC, VCCI
EMI	FCC Part 15 Subpart B Class A, CE EN 55022 Class A
EN 50155 / EN 60068-2-6	Vibration
EN 50155 / EN 60068-2-27	Shock
EN 50155 / EN 60068-2-32	Free Fall