RP-IMC801AFP

10/100/1000 Base-TX to 100/1000Base-X SFP slot Industrial Media Converter

RP-IMC801AFP is a compact and rugged Industrial Media Converter tailored for outdoor CAM enclosures with limited space. Its true mini design, makes it ideal for critical applications like IP surveillance and security in harsh environments. This converter offers versatile power options with support for a wide range of DC voltages (12V-56VDC), ensuring adaptability to various industrial setups.

Equipped with advanced features, the RP-IMC801AFP enhances network reliability. It incorporates Surge Protection Diodes on power inputs and ESD Protection Diodes on RJ-45 ports to safeguard against power surges and electrostatic discharge, respectively. The unit supports both switch mode and converter mode, providing flexibility in networking configurations. The Far End Fault function on the fiber optic port aids in remote fault detection, contributing to efficient network management.

With an extended operating temperature range from -40°C to 75°C, RP-IMC801AFP excels in extreme conditions. Its ability to handle challenging outdoor conditions, coupled with its flexible power options and installation choices, positions it as a reliable and adaptable solution for various critical applications.
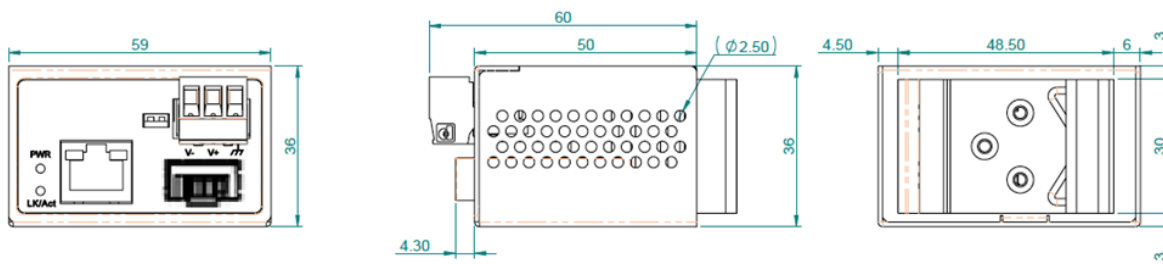
Features

- True Mini, rugged design enclosure 59x36x49mm (LxWxD)
- Supports 12V-56VDC
- Supports Link Fault Pass through (LFP) function
- Supports switch mode and converter mode.
- Surge protection diodes on power input.
- ESD protection diodes on RJ-45 port
- Provides Far End Fault function on FX port.
- Provides increased Noise Immunity
- Extended environmental specification -40°C to 75°C

Specification

Standard	• IEEE 802.3 10Base-T Ethernet IEEE 802.3u 100Base-TX Fast Ethernet • IEEE 802.3ab 1000Base-T Gigabit Ethernet • IEEE 802.3z 1000Base-X Gigabit Ethernet • IEEE 802.3z 1000Base-SX Gigabit Ethernet • IEEE 802.3x Flow Control and Back Pressure,
Switch Architecture	• Back-plane (Switching Fabric): 4Gbps
Data Processing	• Ports speed are the same: Converter mode • Ports speed are not the same: Switch mode (store and forward)
Flow Control	• IEEE 802.3x Flow Control and Back Pressure
Jumbo Frame	• 16KB
MAC address Table Size	• 1K
Packet Buffer Size	• 512Kbits
Network Connector	• 1 x RJ-45 10/100/1000 Base-T(X) ,Auto MDI/MDI-X function, Full/Half duplex • 1 x 100/1000 Base X SFP slot
Network Cable	• UTP/STP above Cat.5e Cable • EIA/TIA-568 10-ohm (100m) • Fiber Cable (Multi-mode):50/125um,62.5/125um • Fiber Cable (Single-mode): 9/125um
Protocol	• CSMA/CD
LED	• PWR (Green) • SFP Lnk/Act (Green) • RJ-45 port (Green)
DIP Switch	• DIP 1: UP-SFP speed 100M，DOWN- SFP speed 1000M • DIP 2: UP-LFP enabled, DOWN-LFP disabled
Reserve Polarity Protection	• Present
Overload Current Protection	• Present
Power Input	• 12V-56VDC
Power Consumption	• 1.92W full load at 48VDC
Removable Terminal Block	• 3 pin contact terminal block for power input • Wire range: 0.34mm^2 to 2.5mm^2 • 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	• -40°C to +75°C
Operating Humidity	• 5% to 95% (Non-condensing)

Storage Temperature	● -40°C to 85°C
Housing	● Rugged Metal, IP30 Protection
Case Dimension	● 59x36x49mm (LxWxD)
Installation	● DIN Rail or Wall Mount options included
Safety	● LVD (EN62368-1)
EMC	● CE, FCC, EN 55032/35
EMI	● CISPR 32, FCC Part 15B Class A
EMS	● IEC 61000-4-2 ESD: Contact: 6KV; Air: 8KV ● IEC 61000-4-4 EFT: Power: 2KV; Signal: 2KV ● IEC 61000-4-5 Surge: Power: 2KV; Signal: 2KV
Vibration	● EN 60068-2-6
Shock	● EN 60068-2-27
Free Fall	● EN 60068-2-32

Dimension

Ordering information

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