

# GIGABIT INDUSTRIAL POE++ MEDIA CONVERTER



## PA-IMC201P-BT

### OVERVIEW: -

- This DIN-Rail mounted Gigabit Industrial PoE++ Media Converter enables reliable integration of high-power PoE devices into extended network deployments using fiber optic transmission. Designed to overcome Ethernet copper distance limitations, it provides seamless conversion between copper and fiber interfaces while maintaining stable Gigabit performance.
- Fully compliant with IEEE 802.3bt PoE++ standards, the device supplies up to 90 W of power to connected equipment. Advanced PoE management features include automatic device detection, power classification, real-time power monitoring, current limiting, and intelligent power cut-off for enhanced operational safety and efficiency.
- Supporting multiple fiber interface options such as single-mode, multi-mode, WDM, and modular SFP, the converter offers flexible network design and strong immunity to electromagnetic interference through optical connectivity.
- The unit is housed in a compact, rugged IP40-rated aluminium enclosure suitable for harsh industrial environments. It is engineered for continuous operation across a wide temperature range of -40 °C to +75 °C, ensuring dependable performance in demanding industrial applications.

### FEATURES: -

- ✓ IEEE 802.3af/at/bt compliant
- ✓ Up to 90 W PoE++ output
- ✓ Auto PD detection and protection
- ✓ Gigabit speed up to 1000 Mbps
- ✓ RJ45 to fiber conversion (MM/SM/WDM/SFP)
- ✓ IP40 aluminium industrial housing
- ✓ DIP switch & LFP support
- ✓ 3-pin power input
- ✓ LED status indicators
- ✓ Plug-and-play installation
- ✓ CE, FCC, LVD, RoHS compliant
- ✓ Fiber distance up to 120 km



## PRITECH AUTOMATION PRIVATE LIMITED

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## TECHNICAL SPECIFICATIONS: -

PARAMETER	SPECIFICATION
Type	UTP to Multi-mode / Single-mode / WDM / SFP
Connector Type	UTP: RJ45 Fiber: SC / ST / LC
Data Rate	UTP: 10/100/1000 Mbps Fiber: 1000 Mbps
Maximum Distance	UTP: 100 m Fiber: 550 m / 20 km / 40 km / 60 km / 80 km / 100 km / 120 km
Duplex Mode	UTP/Fiber: Full / Half Duplex
Flow Control	Full Duplex: IEEE 802.3x Half Duplex: Backpressure
Optical Wavelength	850 nm / 1310 nm / 1550 nm
LED Indicators	Unit: Power, PoE UTP: Link/Act, Speed Fiber: Link/Act, FDX/COL
PoE Standards	IEEE 802.3af (15.4 W) IEEE 802.3at (30 W) IEEE 802.3bt Type 3 (60 W) IEEE 802.3bt Type 4 (90 W)
PoE Output	Pin Assignment: 3/4/5/6 (+), 1/2/7/8 (-) User Port Power: Up to 90 W
Input Voltage	44 ~ 57 VDC
Power Connector	3-pin terminal block
Dimensions (W×D×H)	103 × 75 × 32 mm
Weight	Approx. 1 kg
Operating Temperature	-40 °C to +75 °C
Storage Temperature	-45 °C to +85 °C
Relative Humidity	5% ~ 95% (non-condensing)
Mounting	DIN-Rail
Enclosure	IP40 Aluminium Case
Certifications	CE Class A, FCC, LVD, RoHS 2.0



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## APPLICATIONS: -

- Industrial Ethernet networks
- IP surveillance systems (PoE++ cameras)
- Smart transportation systems
- Factory automation
- Outdoor wireless access points
- Intelligent traffic management
- Smart city infrastructure
- Oil & gas and utility networks
- Building automation systems
- Remote PoE device connectivity



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