

PIMC-2F2T, Industrial PoE++ Ethernet Media Converter

INDUSTRIAL NETWORK POWER SOURCING SOLUTION



Overview

The Industrial Gigabit PoE++ Ethernet Media Converter combines Ethernet media conversion with 802.3bt power over Ethernet Plus Plus (PoE++) injector function to deliver both ports up to 190watts of power output and high data transmission speed to PDs (power devices) installed in a remote area where sufficient and reliable power input is required. Being able to operate under the temperature ranging from -40°C to 75 °C and with IP30 rugged case, it can be placed in most of the harsh environment.

Benefits

- 2x 10/100/1000Mbps Auto-Negotiation RJ45 Port Supporting Auto-MDI/MDIX
- Maximum Transmission Distance Depends on the Inserted Modules
- Auto-negotiation of Half-Duplex / Full-Duplex Transfer Mode
- LEDs Indicate Ethernet and Fiber Link Status at a Glance
- Operating Temperatures from -40°C to +75°C
- Plug-and-play, Supports Wall mounting or DIN-rail Installation
- Complies with IEEE 802.3, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3z, IEEE 802.3x, etc.

Specification

	PIMC-2F2T
Converter Type	PoE++ Industrial Converter
Port Type	2x 10/100/1000Base-T Ethernet RJ45 2x 100/1000Base-X Ethernet SFP
Cable Type (Copper)	Cat3/4/5/5e/6
Cable Type (Fiber)	Multimode 50/125µm or 62.5/125µm Singlemode 9/125µm
Flow Control	Back pressure for half duplex mode IEEE 802.3x pause frame for full duplex mode
Maximum Frame Size	9K
LED	System: Power 1 (Green), Power 2 (Green), Fault Alarm (Red) PoE Usage: (Amber) Fiber: 100BASE-X: LNK/ACT (Amber) 1000BASE-X: LINK/ACT (Green) TP: 10/100/1000BASE-T: LNK/ACT (Green) PoE: PoE-in-Use (Amber)
Dimensions (HxWxD)	5.31"x2.17"x3.35" (135x55x85mm)
Weight	665g
Power Requirements	DC 12~56V, supports reverse polarity protection
Power Consumption	System ON without loading DC 12V: 4.56W DC 48V: 5.28W Full loading with PoE DC 12V: 67.44W DC 48V: 205W
DIP Switch	Standard/Legacy mode
Enclosure	IP30 metal case

Specification

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Installation	DIN-rail kit and wall-mount ear
ESD Protection	6KV DC
Cables	10/100/1000BASE-T: 2-pair UTP Cat. 3, 4, 5, 5e, 6 (maximum 100 meters) EIA/TIA-568 100-ohm STP (maximum 100 meters) 100BASE-FX/1000BASE-SX/LX: Multi-mode: 50/125µm or 62.5/125µm optical fiber Single-mode: 9/125µm optical fiber
PoE Standard	IEEE 802.3bt Power over Ethernet Plus Plus Type 4
PoE Power Output	Standard (BT) mode: 90W Legacy (PoH) mode: 95W
PoE Power Supply Type	End-span + Mid-span
Power Pin Assignment	End-span: 1/2 (+), 3/6 (-)
	Mid-span: 4/5 (+), 7/8 (-)
PoE Power Budget	190 watts
Protocols and Standards Compliance	IEEE 802.3 Ethernet
	IEEE 802.3u Fast Ethernet
	IEEE 802.3ab Gigabit Ethernet
	IEEE 802.3z Gigabit Ethernet over Fiber Optic
	IEEE 802.3x Flow Control
	IEEE 802.3af Power over Ethernet
	IEEE 802.3at Power over Ethernet Plus
	IEEE 802.3bt Power over Ethernet Plus Plus
	IEEE 802.3az Energy Efficient Ethernet (EEE)
Stability Testing	IEC60068-2-32 (free fall)
	IEC60068-2-27 (shock)
	IEC60068-2-6 (vibration)
Operating Temperature	-40 to 75°C (-14 to 167°F)
Storage Temperature	-40 to 85°C (-14 to 185°F)
Operating Humidity	5 to 90%, non-condensing
Storage Humidity	5 to 90%, non-condensing