

User Manual: PC-PMC101-GE Industrial Gigabit PoE Media Converter

Version 9.2020

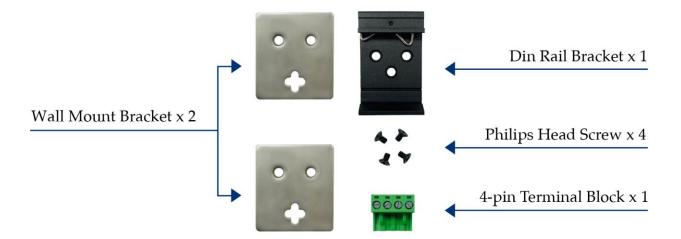


Introduction

This Rugged Industrial PoE Media Converter is designed with hardened Marvell IC, delivering 30Watts of PoE power to your PD while tolerating extreme temperatures in a harsh environment. Our Cold Design technology will not only power up your PD device, but also reduce the excessive heat problem to a minimum. It accepts input voltages from 48VDC to 56VDC to meet IEEE802.3af/at required voltage. It has been rigorously tested for your security, transportation, and telco applications.

Installation package

This unit can be din-rail mounted or wall mounted. Din-rail brackets and wall mount brackets are included.





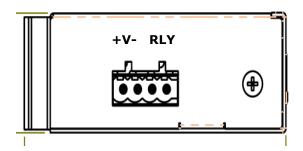
Power connection

This unit provides a 4 pin terminal block. It can be operated using 48-56VDC power source. Always make sure your input voltage is within this supported voltage range. 56VDC input is suggested for optimal IEEE802.3at 60Watts power.

To connect power: Follow the printed polarity for V+, V- and Ground. Connect positive wire to V+, connect negative wire to V- and connect neutral wire to ground.

+V- is for power input connection, this unit has only one power input. **RLY** is for relay connection.

Power connecting procedure:



STEP 1 – Take out 4 pin terminal block located in the included mounting kit package.

STEP 2 – Connect power wire to +V- with correct polarity and connect RLY for relay. Connect the grounding wire to the ground screw.

STEP 3 – Plug into terminal block socket shown above. Polarity needs to match V+ and V-.

<u>WARNING</u> -- Always SHUT OFF power source to connect power wire. <u>WARNING</u> -- Any exceeded input voltage will not make this unit function and may damage this unit.



Dip Switch Function

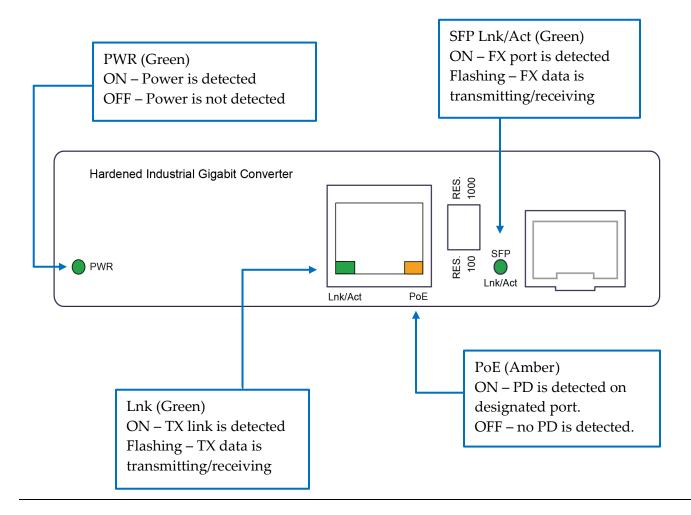
This unit is equipped with dip switches, located on the front panel. Adjusting the dip switches will change the default function of this unit. This unit has set to manufacturer default as: SFP speed 1000M.

The table shown as you may change the dip switch setting to your desired environment.

ites. 1000ivi							
			Dip 1 Reserved	Res.			
				Res.			
			Dip 2 to select SFP speed	1000M	1000M (default)		
l	1	2		100M	100M		

Res. 100M

LED indicator





Specifications					
IEEE 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 IEEE802.3x Flow Control and Back Pressure IEEE802.3af for POE IEEE802.3at for POE+				
Switch Architecture	Back-plane (Switching Fabric): 4Gbps				
Data Processing	Store and Forward				
Flow Control	IEEE 802.3x Flow Control and Back Pressure				
Jumbo Frame	9KB				
Network Connector	1 x RJ-45 10/100/1000BaseT(X) PSE with POE Output power up to 30Watts 1 x 100/1000M SFP				
Network Cable	UTP/STP above Cat.5e Cable EIA/TIA-568 10-ohm (100m)				
Protocol	CSMA/CD				
LED	PWR (Green): ON – Power is detected OFF – Power is not detected SFP Lnk/Act (Green): ON – FX port is detected Flashing – FX data is transmitting/receiving RJ-45 port: Lnk/Act (Green): ON – TX port is detected Flashing – TX data is transmitting PoE (Amber): ON – PD is detected on designated port. OFF – no PD is detected.				
POE Pin Assignment	30 watts 2 pairs Mode A End Span V+, V+, V-, V- for pin 1, 2, 3, 6 DIP 1: Reserved				
DIP Switch	DIP 2: 1000M—SFP speed 1000M (Default) 100M—SFP speed 100M				
Reverse polarity protection	Present				
Overload current protection	Present				
Power Supply	4 pin terminal block with 48V-56V VDC Power Input, RLY (Relay): Relay switch for alarm				



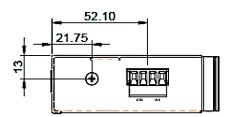
Alarm Relay Contact	Relay outputs with current carrying capacity of 1 A @24VDC. Relay in short circuit mode when power fails. In open circuit mode when power supply is connected	
Power Consumption	2 W@48 VDC full load, Without POE Max total power 36Watts at 56VDC	
POE power	Maximum POE power 36 Watts at 56VDC input	
Removable Terminal Block	Provide 4 pin terminal block 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-ln/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	
MTBF (mean time between failure)	510,304 hrs (MIL-HDBK-217F) at 25°C	
Housing	Rugged Metal, IP30 Protection	
Case Dimension (L X W X D)	103.5 mm x 32 mm x 81.5 mm (L x W x D)	
Installation mounting	DIN Rail and Wall Mount options included	

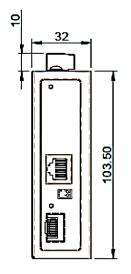
Certifications

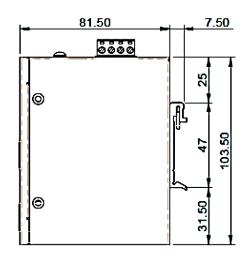
Sofoty	UL 60950-1
Safety	IEC EN60950-1
EMC/EMS	CE, FCC, VCCI
ЕМІ	FCC Part 15 Subpart B Class A
EN 60068-2-6	Vibration
EN 60068-2-27	Shock
EN 60068-2-32	Free Fall

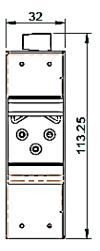


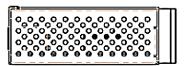
Housing Dimension (mm)











NOTE:

Housing dimension is for purpose of showing product Length, Width, Height, din-rail, and terminal block's position and dimension. Please reference the LED Indicator Page for correct port order.