PROCET
PoE System

PT-PCGI-BT
Gigabit PoE to USB-C Adapter
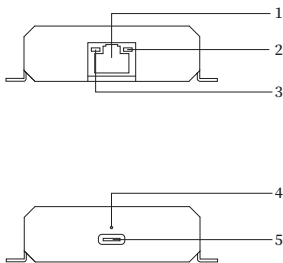
User Manual

www.procetpoe.com

Declaration

Overview

PT-PCGI-BT is a gigabit PoE to USB-C power and data all-in-one adapter. It allows for the power and data obtained from an IEEE802.3bt PoE injector or PoE switch to convert to USB-C PD. Support your USB-C device has stable wired network connectivity.
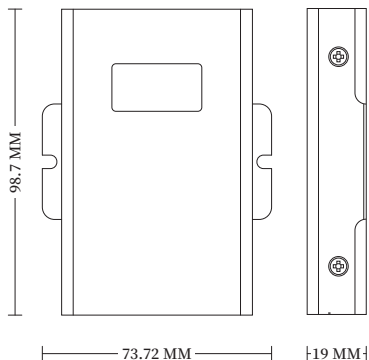
It is enclosed in a high-impact black metal housing with mounting holes on both sides for easy installation. Equipped with some thermal pads, good heat dissipation, suitable for industrial environments with the working temperature from -20 degrees Celsius to +50 degrees Celsius. A fixed hole on the top of the USB-C port to 100% fixed the USB-C cable connector not loose. The device supports a safe voltage input range of 44 to 57 Vdc and provides a maximum power output of 60W along with 10/100/1000Mbps network data. The effective distance for PoE transmission via Cat5e/Cat6 Ethernet cable is 100 meters.

It is compatible with most USB-C devices in the market. Such as tablets, laptops, cellphones, small PCs/Next Unit of Computing (NUC) interactive information kiosks, smart monitors, cameras, and so on. Many bands of USB-C devices were tested, such as Samsung Galaxy Tablets, Microsoft Surface, Apple iPads, Android tablets/smartphones, some Chrome books, and other USB-C-powered devices consuming up to 60W. When the PoE power is disconnected, the unit of PT-PCGI-BT will get power from your USB-C device and can work as an Ethernet signal converter to continue supporting data transfer.

Appearance

1.PoE Input Port
2.Data Indicator
3.Power Indicator
4.USB-C Fixed holes
5.USB-C Output Port

98.7 MM
73.72 MM
19 MM

1 Product Diagram

2   Dimensions

Specification

Model	PT-PCGI-BT
Input	44-57Vdc & IEEE**802.3**bt
Power pins	4/5(+),7/8(-)& 3/6(+),1/2(-)
Output	5V/3A 9V/3A 12V/3A 15V/3A 20V/3A
Operatng Temp.	-20℃ to 55℃
Operating Humidity	Up to 2000 meters
USB Standard	USB 3.0
Network Protocol	IEEE802.3i/u/ab
Data Rates	10/100/1000Mbps
Dimensions & NW	98.7mm X 73.72mm X 19mm 167g

Troubleshooting

Failure Phenomena	Cause Analysis	Solutions
Not working	Poor network cable or network cable failure.	Cable Replacement
	Not compatible PSE	PSE Replacement
	PSE Damage or Powered device Damage	PSE or Powered device Repalcement
	Not compatible Power Consumption	Pay attention to the Power consumption
Data Transmission Abnormality	Check if the total length of the network connection cable exceeds 100 meters.	Shorten the connection distance, or add an extender/ repeater.
	Signal source malfunction	Check if the switch working properly.
	The data rate cannot reach out 1000Mbps.	Your Ethernet connectivity should be at least 1000Mbps. Your USB-C device should support Gigabit. Your USB cable should be at least 3.0 standard and the cable should be at maximum 3 meters length.
	Ethernet data transmission failure	Check if the cable comply with the EIA/ TIA568B or 568A

Cautions

1.This device is for indoor use only.
2.For optimal performance of this device, please use Cat 5e or Cat6 cables
3.The total Ethernet cable length can not exceed 100 meters.
4.Disconnect the USB-C cable from your USB-C device if it does not need power charged. Because prolonged charging may cause your USB-C devices/Tablets to experience battery swelling or a decrease in battery storage capacity.
5. Please use USB 3.0 or higher standard products for connection. Since the practical speed is 35/40MB/s for USB2.0, the practical speed is 300MB/s for USB3.0, practical speed is 300MB/s for USB3.1 Gen 1, practical speed is 1.2GB/s for USB3.1 Gen 2. Low and high-standard USB-C devices connecting only apply the lower standard speed.
6.If this product needs to be installed in a fixed position, please choose a metal plate or wall for installation. Woodenbackboards should not be used to prevent fire hazards.

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