User Manual for PT-PCGI-AT

Overview

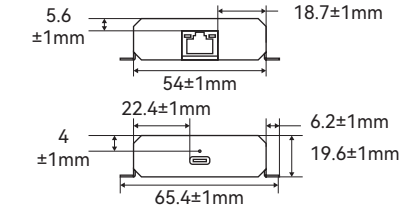
PT-PCGI-AT is a gigabit PoE to USB-C power and data all-in-one adapter. It allows for the power and data obtained from an IEEE802.3at PoE injector or PoE switch to convert to USB-C PD. Support your USB-C device has stable wired network connectivity.

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 23W along with 10/100/1000Mbps network data. The effective distance for PoE transmission via Cat5e/Cat6 Ethernet cable is 100 meters.

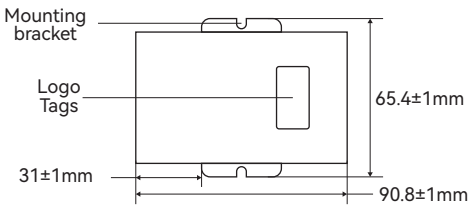
It is compatible with most USB-C devices in the market. Such as tablets, laptops, cellphones, small PCs/Next Unit of Computing (NUC) interactive information kiosks, smart monitors, cameras, and so on. Many bands of USB-C devices were tested, such as Samsung Galaxy Tablets, Microsoft Surface, Apple iPads, Android tablets/smartphones, some Chrome books, and other USB-C-powered devices consuming up to 23W. When the PoE power is disconnected, the unit of PT-PCGI-AT will get power from your USB-C device and can work as an Ethernet signal converter to continue supporting data transfer.

Appearance

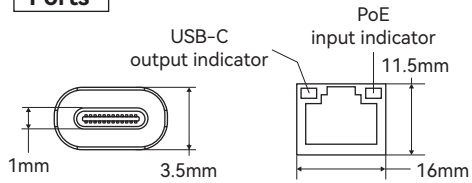
Front View



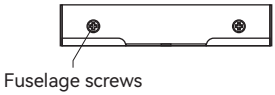
Upper View



Ports



Side View



Specification

	PT-PCGI-AT
Input	44-57Vdc PoE Injector / Switch IEEE802.3at
Power Pins	4/5(+) , 7/8(-) or 3/6(+) , 1/2(-)
Output	USB-C: 5V 2.6A / 9V 1.75A / 12V 1.45A / 15V 1.37A / 20V 1.15A
Operating Temp	-20℃ to 55℃
Operating Altitude	Up to 2000 Meters
USB Standard	USB 3.0
Network Protocol	IEEE802.3i/u/ab
Data Speed	10/100/1000Mbps
Dimensions & NW	90.8mm X 65.4mm X 19.6mm（125g）

Cautions

- This device is for indoor use only.
- For optimal performance of this device, please use Cat5e or Cat6 cables
- The total Ethernet cable length can not exceed 100 meters.
- 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.
- Please use USB3.0 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.
- If this product needs to be installed in a fixed position, please choose a metal plate or wall for installation. Wooden-backboards should not be used to prevent fire hazards.

Trouble Shooting

Failure Phenomena	Cause Analysis	Solutions
Device not working	Issues with the network cable, such as poor contact or disconnect	Reconnect or replace the network cable
	PSE not up to standard (non-compliant with PoE power supply standards, unsupported or incompatible PSE)	Replace with a suitable PSE
	PSE/USB-C Damage	PSE/USB-C Replacement
	The device's output voltage is too low	Verify if the terminal device supports 5V (Min) charging
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 terminal device does not comply with the USB 3.0 standard	Verify if the terminal device complies with the USB 3.0 standard
	Ethernet data transmission failure	Check if the cable comply with the EIA/ TIA568B or 568A

Before using the equipment, please be sure to read the instructions carefully for standardized operation.

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