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GAT-USB-C-PD Isolated Splitter power + Data for USB-C to 25 watts



Product Description – AT-USB-C-PD PoE supply and Data adapter

This device provides a powerful solution for delivering power and wired Ethernet data to a USB-C device over 328ft of network cable. This splitter allows power to be carried on CAT-5e or CAT-6 network cables using either 802.3at standard or 56 volt passive PoE. 802.3af switches can also be used – but only 12 watts can be delivered without overload. 10/100/1000 or 10/100 switches can be used – the device will negotiate at 10/100 full duplex rates.

Intended for use with any 802.3at PoE switch – this active PoE solution negotiates with the switch to activate power and provide it to the client device. It is a compact and cost effective power solution. The PoE switch supplies 48 or 56 volts DC at the source location. The higher DC voltage means the current is reduced by a factor of 9 compared to 5 volts, and then carried with 90% less loss over the Ethernet cable from the source, the USB-C converter at the remote end allows you to extend the charge distance for this application up to 328ft or 100 meters.

Simple usage:

- Step a) connect your PoE switch to an internet router
- Step b) use an Ethernet cable to connect the RJ45 female to your PoE switch up to 100 meter distance.
- Step c) connect the USB-C output via a USB-C high current rated cable, to your device
- Step d) run speed test

The Ethernet cable can be 568A or 568B style, and only 2 pairs (orange and green) are required.

Specifications

Data and Power source	RJ 45 female connector
Data and DC output	USB-C connectors
Data	10/100mbit/s
Data+Power input Pins (802.3at mode A or mode B, Class 4)	RJ45 Ethernet to USB-C bridge inside 1&2 and 3&6 – either polarity 4&5 plus and 7&8 minus
Input Voltage Max	Up to 57 volts
Input Current at 48v	600 mA input delivers 25 watts
Output Voltages	Autonegotiate (see table)
Internal Power usage	750 mW
Operating Temperature	0°C ~ 50°C
Size	110 x 50 x 25mm
Weight	3.5 ounces
LED status (on RJ45 connector)	Green – Data Link active Yellow– Power In Active
Isolation	3,000 volt isolation between PoE and power out



USB-C Connector

Output Current and Watts with 56 volt 802.3at and 100 meters

1.6 Amps 8 Watts
1.8 Amps 16 Watts
1.35 Amps 16 Watts
1.38 Amps 20 Watts
1.15 Amps 24 Watts



PoE To USB-C Driver (Patent Pending)
MODEL: GAT-USBC-PD-REV2
INPUT: 48-56V DC IEEE802.3AF/IEEE802.3AT
POWER OUT: USB-C (Type-C) PD3.0
5V2.6A, 9V1.78A, 12V1.34A, 15V1.37A, 20V1.15A
DATA: 10/100M Ethernet To USB2.0