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GAT-USB-C Isolated Splitter power for USB-C to 25 watts



Product Description – GAT-USB-C PoE Power Splitter

This device provides a powerful solution for delivering power 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 802.3af 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 allows 10/100/1000 at full duplex rates to the remote device.

Intended for use with any 802.3af 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) use an Ethernet cable to connect the RJ45 female of the GAT-USB-C to your PoE switch or injector up to 100 meter distance.
- Step b) connect the USB-C output via a USB-C high current rated cable, to your device
- Step c) Use WiFi or an RJ45 cable from the splitter to your device

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
DC output	USB-C connector
Data	10/100/1000mbit/s RJ45 Ethernet adapter needed
Data+Power input Pins (802.3af mode A or mode B, Class 4)	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	300 mW
Operating Temperature	0°C ~ 50°C
Size	110 x 50 x 25mm
Weight	3.5 ounces
LED status (on RJ45 connector)	Green – Power In Active Amber – Power Out Active
Isolation	3,000 volt isolation between PoE and power out



USB-C
Voltage

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

5.0 V	2.39 Amps 12 Watts
9.0 V	2.39 Amps 21.6 Watts
12 V	2 Amps 24 Watts
15 V	1.7 Amps 24 Watts
20 V	1.2 Amps 24 Watts