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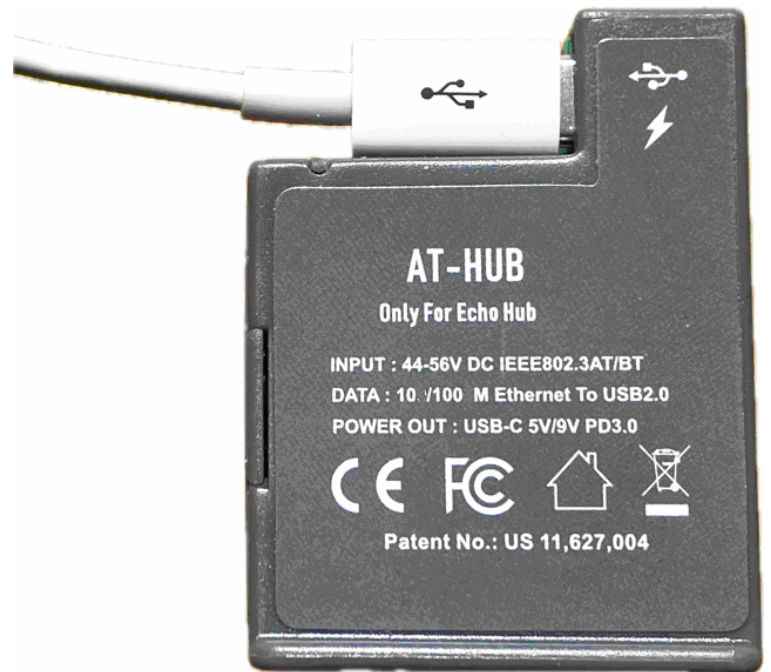
AT-Hub

802.3af/bt Splitter
power + Data

43x56 mm

10/100mb Data
for USBC to 27 watts

For Amazon Echo
Hub



Product Description – AT-Hub

This device provides power and data for the Amazon™ Echo™ home automation hub. It is a powerful solution for reliable wired Ethernet data over 328ft of network cable. This splitter allows power to be carried on CAT-5e or CAT-6 network cables using either 802.3af, 802.3at, 802.3bt standards or 48 volt passive PoE. 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 802.3af 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, 51 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 98% 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) test the operation

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 power output	USBC connectors #1 (top)
Data	10/100mbit/s RJ45 Ethernet to USBC bridge inside
Data Output	USBC connector #1 (top)
Data+Power input Pins (802.3af mode A or mode B)	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	250 mA input delivers 10 watts
Output Voltage	5 Volts 3 Amps auto detect 9 volts 3 Amps
Internal Power usage	620 mW
Operating Temperature	0°C ~ 50°C
Size	57 x 42 x 34 mm
Weight	3.5 ounces
Isolation	Isolated – no connection and full isolation between input poe power and output power

Side View

Top side with Ethernet Connector



#1 connector
Powered

#2 connector
not powered

USBC
Voltage

5.0 V
9.0 V

Output Current and Watts with 44-56 volt 802.3af and 100 meters

3 Amps | 15 Watts
3 Amps | 27 Watts

