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AF-USBC-JB

802.3af Splitter
power + Data
86x86 mm

10/100mb Data
for USBC to 10 watts



[Product Description – AF-USBC-JB PoE supply and Data adapter for Euro boxes](#)

This device provides a powerful solution for delivering power and wired Ethernet data to a USBC 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 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 90% less loss over the Ethernet cable from the source, the USBC converter at the remote end allows you to extend the charge distance for this application up to 328ft or 100 meters.

[Specifications](#)

Data and Power source	RJ 45 female connector
DC power output	USBC connectors A or B
Data	10/100mbit/s
Data Output	RJ45 Ethernet to USBC bridge inside USBC connector B only
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	5v
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

USBC
Voltage

5.0 V

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

2 Amps | 10 Watts



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 USBC output via a USBC 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.