PoE World

World Class
Injectors Switches Splitters
Extenders Testers

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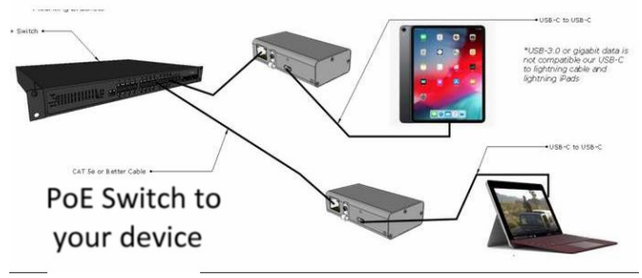
GAT-USBC-PD-V4®
Isolated power + 10/100/1000mb Data



Product Description - GAT-USBC-PD-V4® PoE supply and Data adapter

This device provides a compact solution for delivering power and wired Ethernet data to a USBc device over 328ft of network cable. This PD (Powered Device) allows power to be carried on CAT-5e or CAT-6 network cables using either 802.3at standard or 48 volt passive PoE. 10/100/1000 or 10/100 switches can be used – the device will negotiate to the highest speed.

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 between 48 and 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 device then autonegotiates with the laptop or tablet for the highest charge rate supported, and allows you to extend the charge distance for this application up to 328ft or 100 meters.

802.3af switches can be used if the load is limited to 13 watts. The device will not automatically downgrade the output power if a 802.3af switch is used and the load is greater than 13 watts – please use a 802.3at switch or passive PoE injector with greater than 25 watts of power.

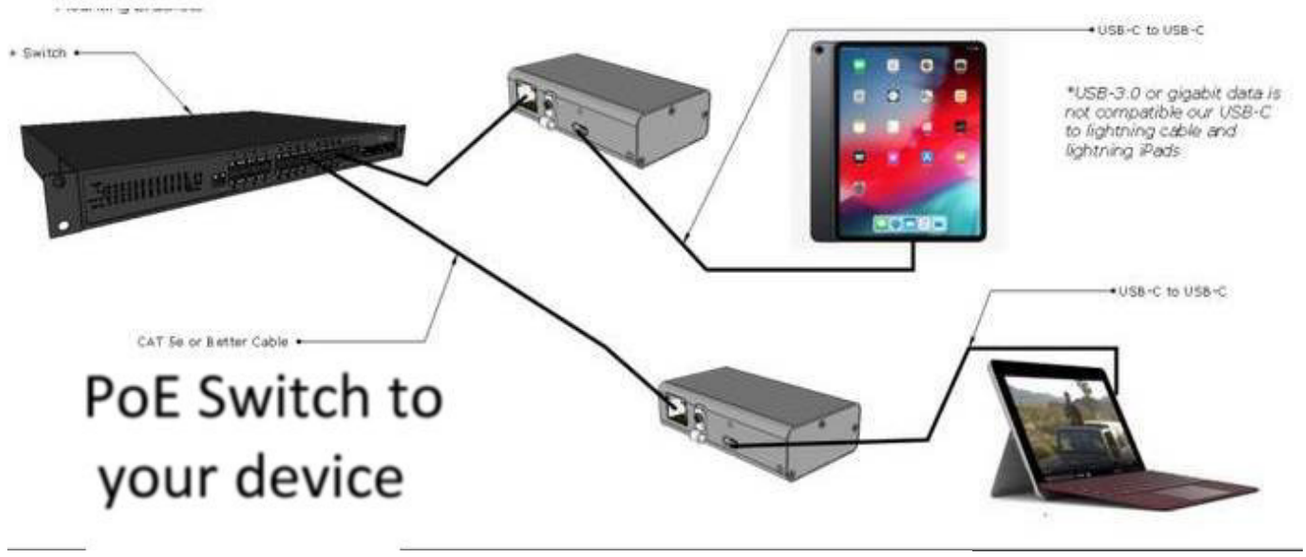
Simple usage:
Step a) connect your PoE switch to an internet router
Step b) use an Ethernet cable to connect the RJ45 female to your PoE switch up to 100 meter distance.
Step c) connect the USBC male connector to your device (eg tablet)
Step d) disable the wifi on the tablet
Step e) run speed test

The Ethernet cable can be 568A or 568B style, 2 pairs (orange and green) are required for 100 mb, 4 pairs for 1000 mb/s operation. PoE power can be mode A or mode B.

Specifications

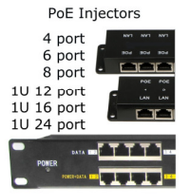
Power source		RJ 45 female connector	
Data		10/100/1000 mbit/s RJ45 Ethernet to USBC bridge inside	
Data+Power input Pins (802.3af mode A or mode B)		1&2 and 3&6 – either polarity 4&5 plus and7&8 minus	
Input Voltage Max		Up to 57 volts	
Input Current at 48v		265 ma input delivers 2 amps out	
Output Voltage	no load, default	5.2v – 2600 mA max	13 watts
	USBc 9v	- 1780 mA	16 watts
	USBc 12v	- 1340mA	16 watts
	USBc 15v	- 1370mA	20 watts
	USBc 20v	- 1150mA	23 watts
Standby power / Keep Alive		440 mA with no load	
Operating Temperature		0°C ~ 50°C	
Size		76 x 22.5 x 43.6 mm	
Weight		2.5 ounces	

Data and Power by Ethernet



Use with any PoE-World PoE injector or PoE switch

PoE Tester



PoE-World injectors

Any PoE Switch