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AF-Lightning-PD® Isolated Splitter power + Data for iPads®

Lightning® connector is a registered trademark of Apple Inc®



Product Description - AF-Lightning-PD® PoE supply and Data adapter

This device provides a low cost solution for delivering power and wired Ethernet data to a Lightning® 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. 802.3at switches can also be used – but only 12 watts will be requested. 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 or 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 5v 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 Lightning® male adapter to your Apple device
- Step d) disable the wifi on the iPad
- Step e) run speed test

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

Specifications

Power source	RJ 45 female connector
DC output	Apple Lightning
Data	10/100mbit/s
Data+Power input Pins (802.3af mode A or mode B)	RJ45 Ethernet to Lightning bridge inside
Input Voltage Max	1&2 and 3&6 – either polarity
Input Current at 48v	4&5 plus and 7&8 minus
Output Voltage Max load (5v10w)	Up to 57 volts
Output Voltage no load	265 ma input delivers 2 amps out
Operating Temperature	5v +- 2% at 2 amps 10 watts
Size	5.2v
Weight	0°C ~ 50°C
Isolation	24 x 30 x 80 mm with 20 cm cord
	2.5 ounces
	3,000 volt isolation between PoE and power out

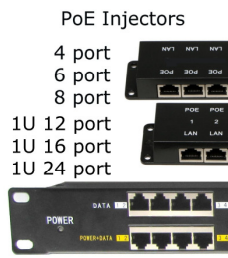


Data and Power by Ethernet

Use with any mode A PoE-World PoE injector or PoE switch



PoE Tester



PoE-World injectors



Any PoE Switch