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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. 802.3af 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

DC output

Data

Data+Power input Pins  
( 802.3af mode A or mode B )

Input Voltage Max

Input Current at 48v

Output Voltage Max load (5v10w)

Output Voltage no load

Operating Temperature

Size

Weight

Isolation

RJ 45 female connector

Apple Lightning

10/100mbit/s

RJ45 Ethernet to Lightning bridge inside

1&2 and 3&6 – either polarity

4&5 plus and 7&8 minus

Up to 57 volts

265 ma input delivers 2 amps out

5v +- 2% at 2 amps 10 watts

5.2v

0°C ~ 50°C

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 Injectors

4 port

6 port

8 port

1U 12 port

1U 16 port

1U 24 port



PoE-World injectors



Any PoE Switch