

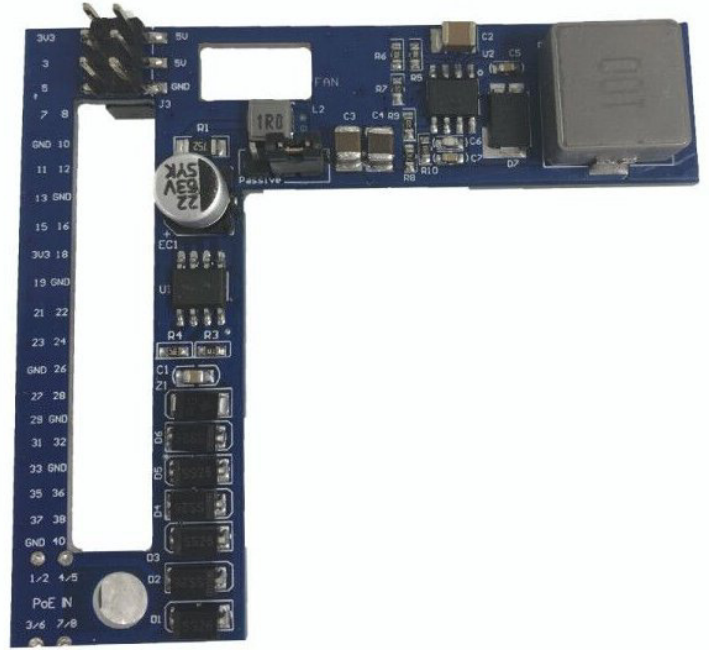
**PoE World**  
World Class  
Injectors Switches Splitters  
Extenders Testers

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**GAT-Nano**  
**802.3at PoE Hat**  
**15 watts for**  
**Jetson Nano**  
  
**non Isolated,**  
**Passive**  
**supported**



Product Description – GAF-Nano

This PoE-World device provides an efficient solution for delivering power to a Jetson Nano over 328ft of network cable. This device allows power to be carried on 10/100/1000 networks with either 802.3at or passive injectors and switches with a CAT5e, CAT6 or CAT7 Ethernet network cable.

In 802.3at mode – it is Intended for use with Cisco or similar PoE switches – this active PoE solution negotiates with the switch to activate power and provide it to the Nano. 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, and then carried with less loss over the cable. This PoE to 5 volt converter allows you to operate the Nano up to 328ft or 100 meters from a power source. In Passive mode, costs can be lower because the negotiation is not needed.

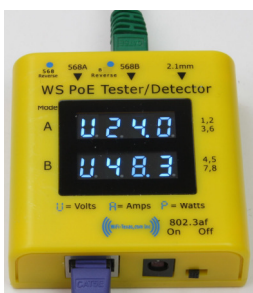
The form factor is ideal for the Jetson Nano. The connector pins are available for GPIO and serial use. There is room for a large heat sink, and the output power is completely regulated and stable, with much less noise than any other solution. The 15 supplied watts is plenty of power for your applications.

Specifications

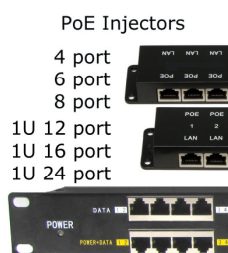
Power and data source input	RJ 45 female connection to the Nano
Isolated Data to powered device	All 4 pairs are active for data
	1&2 and 3&6 – either polarity
Power input Pins	4&5 + plus, 7&8 - minus
802.3at ( mode A or mode B)	
802.3at class	Class 4 - 25.5 watts max
Input Voltage Range	From 44 to 57 volts
Input Current at 48v	400 ma input delivers 3 amps out
Output Voltage Max load (5v10w)	5v +- 2% at 3 amps 15 watts
Operating Temperature	0°C ~ 50°C
Size	65 x 39 x 11 mm (height from top of Pi pins)
	Not Isolated
Isolation	Nano ground may be 40 volts lower than earth ground - use only class 2 monitors



**Other PoE-World products**



PoE Tester



PoE injectors



Gigabit PoE splitters for DC, USB and USB-C

