

## WT-GAF-12v12w Gigabit non isolated splitter for 12 volt cameras etc Version 1



[Product Description - WT-GAF-12v12w](#)

This device provides a low cost solution for delivering power to a 12 volt camera or routers over 328ft of network cable. This device allows power to be carried on 10/100/1000 networks with either 802.3af or passive injectors and switches with a CAT5e, CAT6 or CAT7 Ethernet network cable.

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 client device. It is a compact and cost effective power solution. The switch supplies 48 or 56 volts DC at the source location. The higher DC voltage means the current is reduced by a factor of 4, and then carried with less loss over the 10BASE-T or 100BASE-T network cable. The splitter extracts the DC voltage from the network cable and reduces the voltage to 12v, and increases the available current by the same factor to power the camera on the 2.1 mm x 5.5 mm splitter DC plug. Unlike simple injector / splitter sets, this combination of a 48v source and 12v converter allows you to extend the distance with this product for this application up to 328ft or 100 meters.

We also offer kits with up to 16 injectors and splitters – so one power supply can feed 4, 8, 12 or 16 cameras. These kits include the Multi Port Passive POE injector and a power supply of either 30 watts, 60 watts or 120 watts.

- Step a) connect 2.1mm DC cord to your camera,
- Step b) connect RJ45 male to your camera
- Step c) use a factory Ethernet cable to connect the RJ45 female to your PoE switch up to 100 mtr distance

### Typical Cameras

- Foscam W outdoor series Tensis, Wansview, Maygion, EasyN, Apexis, EasySF,
- Routers, 12 volt tablet computers
- non-PoE Access points, door locks and other devices
- other adapters available for 2.5 mm x 5.5mm devices, 0.7mm, etc

### Specifications

|   |                                    |
|---|------------------------------------|
| Power and data source                     | RJ 45 female connector             |
| DC output                                 | 2.1mm x 5.5mm                      |
| Data only connector                       | 10/100/1000 BASE-T RJ-45 male      |
| Data Pins out – male RJ45                 | All pins active for gigabit speeds |
| Data + Power input Pins ( 802.3af mode B) | 4&5 (plus) and 7&8 (minus)         |
| Data + Power input Pins ( 802.3af mode A) | 1&2 and 3&6 – either polarity      |
| Input Voltage                             | 44 to 57 volts                     |
| Input Current at 48v                      | 300 ma input delivers 1 amp out    |
| Output Voltage Max load (12v12w)          | 12v +- 2% at 1 amps 12 watts       |
| Output Voltage no load                    | 12v                                |
| Operating Temperature                     | 0°C ~ 50°C                         |
| Size                                      | 22 x 22 x 100 mm                   |



Power non-PoE Cameras



PoE Tester



WiFi-Texas injectors



Any PoE Switch

## Advisory

### Important Notice From WiFi-Texas About your 12V V1 Device

The V1 device has a problem if it is used with a device that has a connection to ground – like a TV set AND if the injector or PoE switch is a Class 1 grounded power supply.

In this combination – the outside of the DC Barrel connector is at +36v referenced to earth Ground.

Further - the PoE switch will in most cases not be able to turn the port power off, so this +36v will stay on and could damage the TV.

Use of a Class II Power supply is recommended

Version 3 and later are isolated and do not have this problem.