# Battery POE v4 24v

Portable device for alignment and testing of POE internet  antennas

The hotspot is in bridge mode, transparent, everything which is on the LAN can be found on the Wi-Fi.

Set a static IP in the "GEVAelettronica" network  wifi:
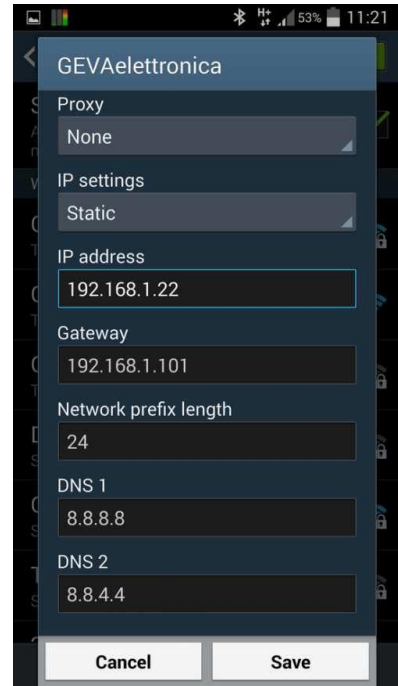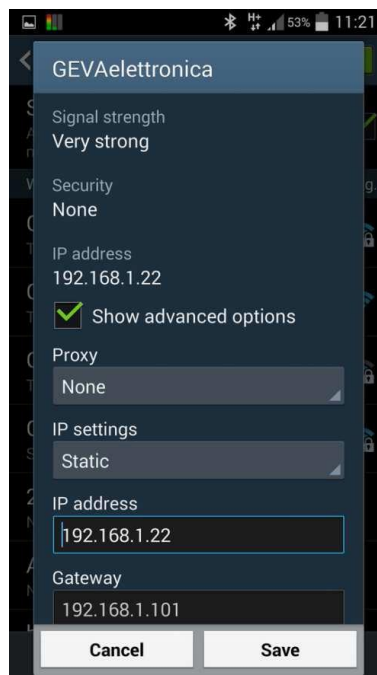
# Specification

24 Vout 8W  POE PowerBank  6000mAh

24 Vout 15W POE PowerBank 7000mAh High current  battery

WiFi 802.11 b / g / n wireless technology, 150Mbps wireless transmission rate.
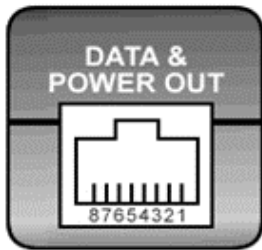
OpenWrt with HTML  interface

VLAN interface

Samba 3, for files and memory sharing, USB flash  memory.

| Red Led | Blue Led | Status Lights |
|---------|----------|---------------|
| Slow Blink | Off | Ethernet  Not  Connected |
| Slow Blink | On | Ethernet  100Mb Full  dupex |
| Slow Blink | Slow Blink | Ethernet  Slower  speed |
| Fast Blink | Fast Blink | CPE prepared |
| 5 Sec On | - | Failed to CPE  preparing |

## Pinout



| | |
|---|---|
| 1 | Data Pair 1 |
| 2 | Data Pair 1 |
| 3 | Data Pair 2 |
| 4 | + VDC |
| 5 | + VDC |
| 6 | Data Pair 2 |
| 7 | - VDC |
| 8 | - VDC |

## For 24V Cambium CPE you have to buy a LAN cable with reversed power pin.
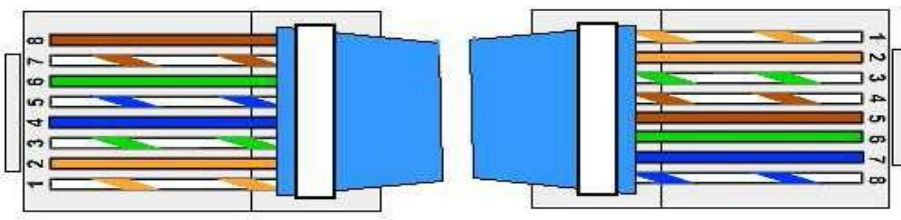


## Hadrware/Firmware

RAM 32mByte / 256Mbit

Flash 8Mbyte / 64Mbit

RT5350F chipset

IP device  192.168.1.69

ssh username

root password

geva

### firmware V3

192.168.1.10

password  gevach

upgrade firmware type  "updategeva.sh"

## Automated preparation of CPE antenna.

On the batteryPoE, through ssh  connection:

| | |
|---|---|
| /root/boot.sh | executed at  startup |
| /root/CpConf.sh | daemon for CPE  configuration |
| /root/OnCpScript.sh | executed on the CPE for its  configuration |
| /root/system.cfg | copied on the CPE for its  configuration |
| /root/Leds.sh | daemon that controls red/blue  leds |

### boot.sh

```
#!/bin/sh
iperf -s&
/root/Leds.sh &
```

#/root/CpConf.sh &

1. Remove comment (#) on the last line, on boot.sh file, for enable auto CPE conf.
2. Customize OnCpScript.sh for your requirement.
3. Copy your CPE configuration file, system.cfg
4. This example work on the Ubiquiti AirOs CPE

## iperf

iperf –s always running

You can call
iperf –c 192.168.1.69
On any linux device, CPE, PC, ecc.

## Samba3 and USB flash key

USB flash memory FAT32

mounted in /mnt/usbkey

Android and Linux shared as:

\\192.168.1.69\usbkey

Samba3 not work with new windows updates

FCC Warnning:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
• Reorient or relocate the receiving antenna.
• Increase the separation between the equipment and receiver.
• Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
• Consult the dealer or an experienced radio/TV technician for help.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1)This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.