



BATTERY PoE MANUAL

Firmware f4.0

type v4

type at

Portable device for alignment and testing of PoE
Internet antennas, ip cameras, router.

Important:

Set a static IP in the Wi-Fi "GEVAelettronica" network.

First time, charge until the battery stops blinking.

If it does not turn on, put switch on off state and charge it.

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

Battery PoE at

Function of left click button:

- Fast double click when device is off - 24V switch on
- One click button when 24V shows up in the display - switching to 48V
- Long last click button when device is switched on - shut down
- Fast double click when device is on - test mode
- One click button when in test mode - return to regular mode

Functions of right switch button:

- Turn on Wi-Fi

Display:

- Battery level.
- PoE voltage
- Ethernet Status ICON
 - switched off - router off
 - full – ethernet at 100 Full Duplex
 - half – Problems with ethernet cable
 - unplg – Unplugged cable
- Power delivered
- config done – When the script is successful
- config failed – When the script fails

Slow Charger - Micro Usb

Fast Charger - plug 2.5mm 5V 2A

Super Fast Charger - micro usb + plug

Rear Leds:

blue & red – see v4 leds

4 blue leds, battery level and in charge



Functions:

- 1.5 inch TFT RGB display
- Passive Power Over Ethernet Device, Ubiquiti, Mikrotik, Cambium, ecc.
- switchable 24V and 48V - 24W PoE.
- Not really 802.3at but power up all device 802.3at using 8 wires
- HotSpot WiFi
- 17000mA/h for charging external devices.
- Short-circuit protection
- Automated preparation of CPE antenna.
- OpenWrt, HTML menu
- VLAN support
- iperf -s always active
- Samba 3, for files and memory sharing, USB flash memory.
- Perfect match with App EasyUBNT, Tik-App, ubnt
- IEEE 802.3 (Pin 4 e 5 +24V, Pin 7 e 8 GND)
- For Cambium you have to create a LAN cable with reversed power pin.
- One year warranty.
- Micro USB slow charge, fast plug plug, super charge (slow + fast)
- Independent state:
 - USB Out (Charge/LED)
 - Wi-Fi
 - PoE On
- Accessory:
 - USB Ligth
 - Hard Case
 - USB Cable
 - Lan Cabl
 - fast charger with plug 5V 2A 2.5*0.7mm or 2.35*.07mm
- 300grams
- 22.8x75.5x145.2mm
- RT5350F chipset 2,5GHZ
- One PCB antennas.
- 150MIPS

Battery PoE v4

24 Vout 8W PoE 6000mAh

24 Vout 15W PoE 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 duplex
Slow Blink	Slow Blink	Ethernet Slower speed
Fast Blink	Fast Blink	CPE prepared
5 Sec On	-	Failed to CPE preparing

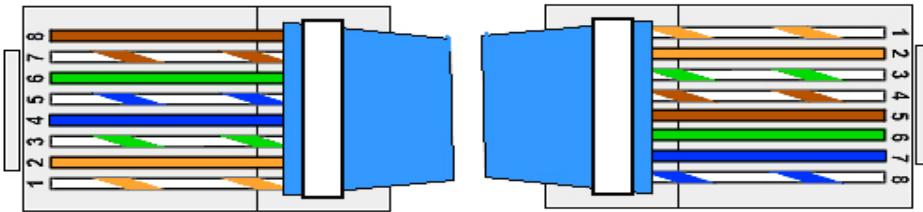


Pinout



- 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.



Accessory:

Cambium Cable



24V to 48V Cable



3 Vie cable, for LAN speed test



Hardware/Firmware

RAM 32mByte / 256Mbit

Flash 8Mbyte / 64Mbit

RT5350F chipset

IP device 192.168.1.69

ssh

username root

password geva

ex firmware V3

192.168.1.10

password gevach

Automated preparation of CPE antenna.

On the batteryPoE, through ssh connection:

/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

On HTML page of router -> System -> Startup -> Local Startup

```
iperf -s&
```

```
/root/Leds.sh &
```

```
#/root/CpConf.sh &
```

1. Remove comment (#) on the last line, 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 windows 10, but you can enable it. (Search in google)

Repository:

If you set working gateway, repository work, and you can add the modules you need, for example to enable GSM dongle, or other drives, the flash free is about 1Mb.

These are the available repository, but can not be used together.

src/gz openwrt_core http://www.gevaelettronica.it/batteryPoE_fw4/core

src/gz openwrt_base http://www.gevaelettronica.it/batteryPoE_fw4/base

src/gz openwrt_luci http://www.gevaelettronica.it/batteryPoE_fw4/luci

src/gz openwrt_packages http://www.gevaelettronica.it/batteryPoE_fw4/packages

src/gz openwrt_routing http://www.gevaelettronica.it/batteryPoE_fw4/routing

src/gz openwrt_telephony http://www.gevaelettronica.it/batteryPoE_fw4/telephony