GL-AR150 Series (White)

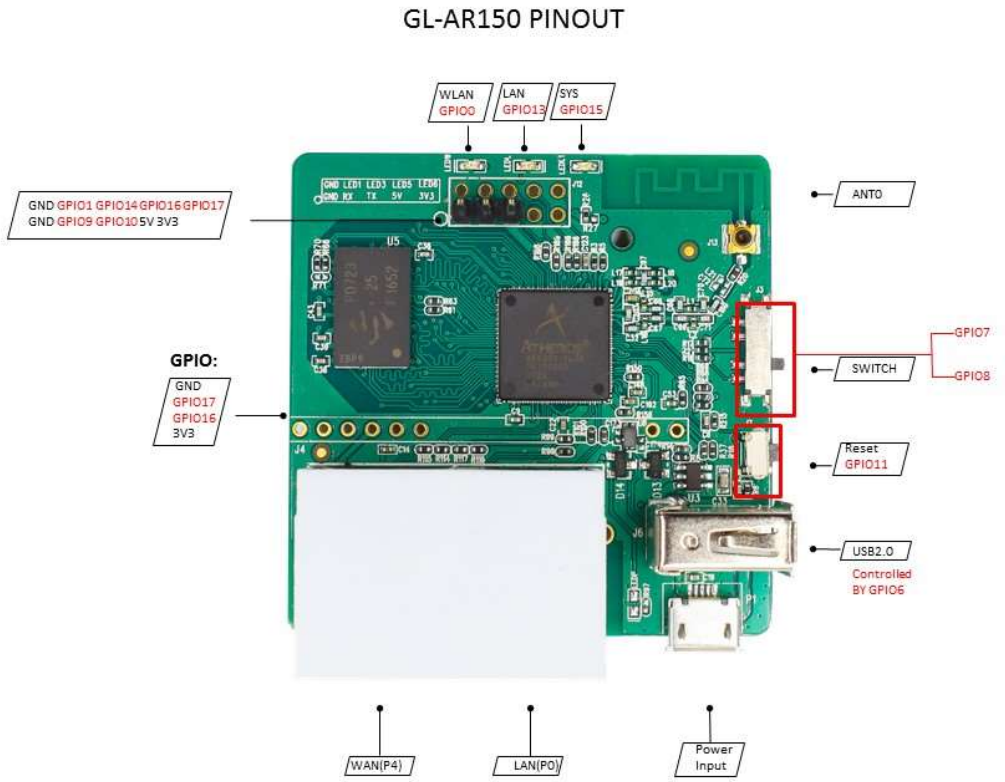
AR150 Series includes AR150, AR150-Ext, AR150-PoE and AR150-Ext-PoE.

Hardware Specification

Model	GL-AR150
CPU	Atheros 9331 400MHz
Memory	DDRII 64MB
Storage	16MB flash
Interfaces	1 WAN 1 LAN 1 USB2.0 1 Micro USB (power) 1 Reset Button UART
Frequency	2.4GHz
Transmission Rate	150Mbps
Max. Tx Power	18dBm
Protocol	IEEE 802.11b/g/n
External Drive Format Support	FAT32/NTFS/EXT4/EXT3/EXT2
Webcam Support	MJPEG, YUV (web cam not support any more from firmware v2.27)

Model	GL-AR150
DIY Features	UART, GPIO, 3.3V & 5V power port
External Antenna Support	Yes (optional)
PoE Module Support	Yes (optional)
Power Input	5V/2A
Power Consumption	<1.5W
Dimension, Weight	58mmX58mmX25mm, 39g

PCB Pinout



RTC Setting

You can use a RTC (Real-time control) module in GL-AR150 mini router.

Install kernel modules

If you use our stock firmware, you can just install using `opkg`

```
opkg update
opkg install kmod-i2c-gpio-custom
opkg install kmod-rtc-sd2068
```

If you want to compile your own firmware, choose these packages:

```
Kernel modules  --->  I2C support  --->  kmod-i2c-gpio-custom
Kernel modules  --->  Other modules  --->  kmod-rtc-sd2068
```

Software

The GPIO used for RTC is below:

`SDA` <--> `GPIO1` `SCL` <--> `GPIO17`

Now you need in insert kernel modules and connect to the module

```
insmod i2c-gpio-custom.ko bus0=0,1,17
echo sd2068 0x32 > /sys/bus/i2c/devices/i2c-0/new_device
```

To read the time from RTC module

```
hwclock -r
```

To sync the RTC module's time to mini router

```
hwclock -s
```

To write mini router's time to RTC module

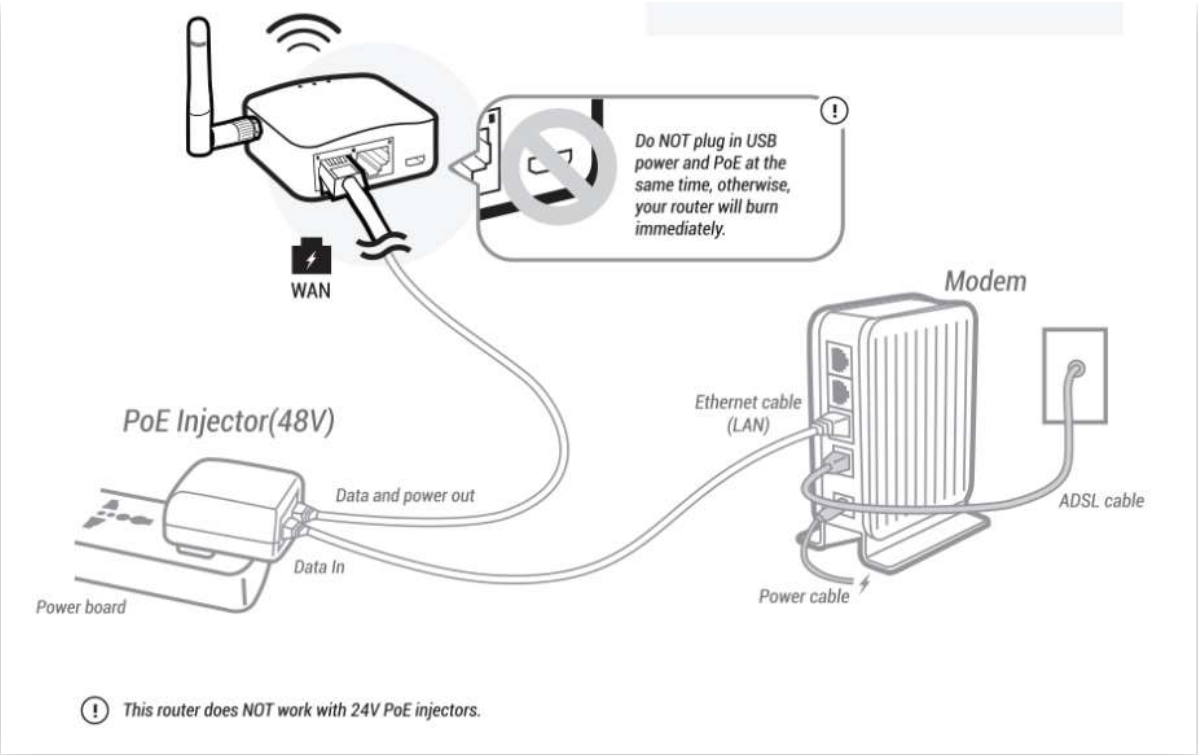
```
hwclock -w
```

PoE Connection

We have a specific PoE module for GL-AR150 mini routers. You can find it in the PoE version of AR150 router.

You can only apply one power supply method at one time, either via PoE (Power over Ethernet) or micro USB Power. The compatible passive or active PoE injector should be 48V 802.3af/at.

PoE only works on the ***WAN Port only***



PoE Setup Sample:

The following PoE injector is widely availabe in the market and it is very affordable. You can put you Ineternet cable in the `Data In` port then connect the `Data & Power Out` port to AR150-PoE's `WAN` port.

For PoE Version Only


For reference only.
The PoE switch and the Ethernet cables are NOT included in this package.
Data In
Power Out
Data &
LAN
Power
FLAT CABLE