

RTC on the Odroid W

This page details how to setup the RTC Odroid W on the Raspbian “wheezy” image from <http://www.raspberrypi.org/downloads>

Preparations

- Odroid W
- uSD-Card ⇒ over 2GB or eMMC Module
- RTC Backup battery

Configuration

1. Building the kernel
Please refer to [Kernel compilation for odroid-w](#)
2. With your Odroid W insert a RTC Backup Battery into the battery connector which is BT1.
3. Enable I2C by running:

```
sudo vi /etc/modprobe.d/raspi-blacklist.conf
```

Find the I2C line where the i2c is black listed

```
blacklist i2c-bcm2708
```

Comment it out by replacing it with the line below

```
#blacklist i2c-bcm2708
```

4. Now you have the RTC Odroid W running with the current date and time the next step is to make it load when the Odroid W boots.
Edit the modules file:

```
sudo vi /etc/modules
```

Add rtc-rc5t619 at the end of the file and save it.

5. Next you want to add the RTC Odroid W at boot by editing /etc/rc.local.
sudo vi /etc/rc.local
Add the following at the bottom of the page above exit 0.

```
echo rc5t619 0x32 > /sys/class/i2c-adapter/i2c-0/new_device  
hwclock -s
```

Save the file and reboot your Odroid W.

```
sudo reboot
```

If everything worked correctly the RTC Odroid W should be initialised on boot and the current date and time will be loaded into Linux.

6. You can check the current time on the RTC Odroid W with:

```
sudo hwclock -r
```

If this is the first time you have run the RTC Odroid W it will display a date of July 17th 2014.

7. If the Odroid W is connected to the internet the correct date and time should be set automatically otherwise you can set the current date and time using:

```
sudo date -s "17 JUL 2014 18:00:00"
```

You can check the current linux date with the command (date).

8. To save the date onto the RTC Odroid W use the following command:

```
sudo hwclock -w
```

Verify the date has been saved onto the RTC Odroid W with:

```
sudo hwclock -r
```

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