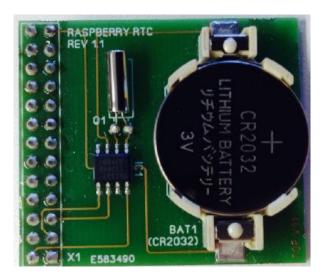
Raspberry PI Real Time Clock Module



Set RTC Time

Now that we have installed the modulewe can set up the module.

First, load up the RTC module by running

sudo mo dpro be rtc-ds1307

Then, as root (type in **sudo bash**) run

- echo ds1307 0x68 > /sys/class/i2c-adapter/i2c-0/new device (if you have a rev1 Pi)
- echo ds1307 0x68 > /sys/class/i2c-adapter/i2c-1/new_device (if you have a rev 2Pi)

You can then type in exit to drop out of the root shell.

Then check the time with **sudo hwclo ck -r** which will read the time from the DS1307 module. If this is the first time the module has been used, it will report back Jan 1 2000, and you'll need to set the time



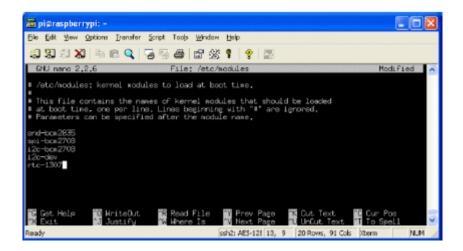
Ethernet or Wifi - it will automatically set the time from the network. Once the time is correct (check with the **date** command), run **sudo hwclo ck -w** to write the system time to the RTC

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You can then verify it with sudo hwclo ck -r



Next, you'll want to add the RTC kernel module to the /etc/modules list, so its loaded when the machine boots. Run **sudo nano /etc/mo dules** and add **rtc-ds1307** at the end of the file (the image blow says rtc-1307 but its a typo)



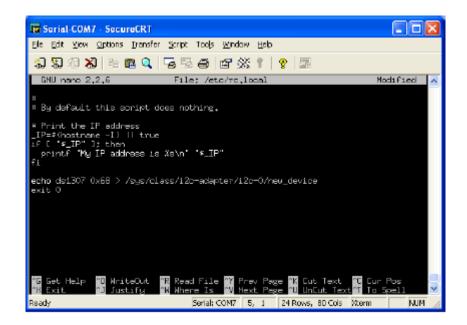
tho Then you'll want to create the DS1307 device creation at boot, edit /etc/rc.local by running

sudo nano /etc/rc.local

and add:

echo ds1307 0x68 > /sys/class/i2c-adapter/i2c-0/new_device (for v1 raspberry pi) echo ds1307 0x68 > /sys/class/i2c-adapter/i2c-1/new_device (v2 raspberry pi) sudo hwclo ck -s (both versions)

before **exit 0** (we forgot the hwclock -s part in the screenshot below)



That's it! Next time you boot the time will automatically be synced from the RTC module