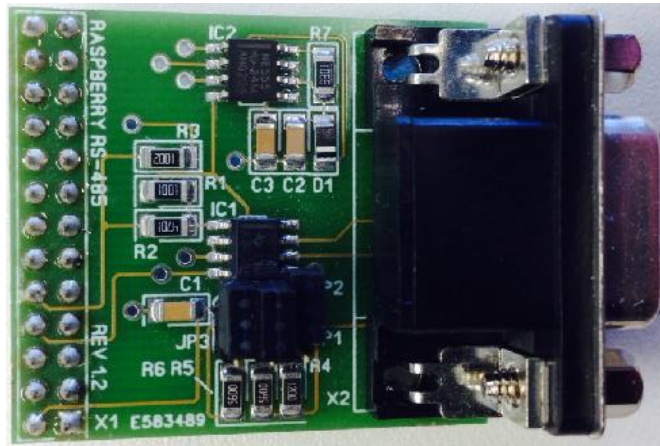


# Raspberry PI RS485 Module



## Enabling the UART port on a Raspberry PI

By default the serial port on the Raspberry PI is configured for console input/output. If you wish to use the serial port in your own software then you must make the following changes.

First use nano to open `/boot/cmdline.txt` and edit it to disable boot info being sent to the port.

```
$sudo nano /boot/cmdline.txt
```

The contents of the file should look a bit like this:

```
dwc_otg.lpm_enable=0 console=ttYAMA0,115200 kgdboc=ttYAMA0,115200  
console=ttY1 root=/dev/mmcblk0p2 rootfstype=ext4 elevator=deadline rootwait
```

Remove the text highlighted in red, this will stop boot info being sent on startup. Press Ctrl+O to write the changes and Ctrl+X to exit nano.

Now we need to edit `/etc/inittab` to disable console login on the serial port. Open this file with nano

```
$sudo nano /etc/inittab
```

Look for this line:

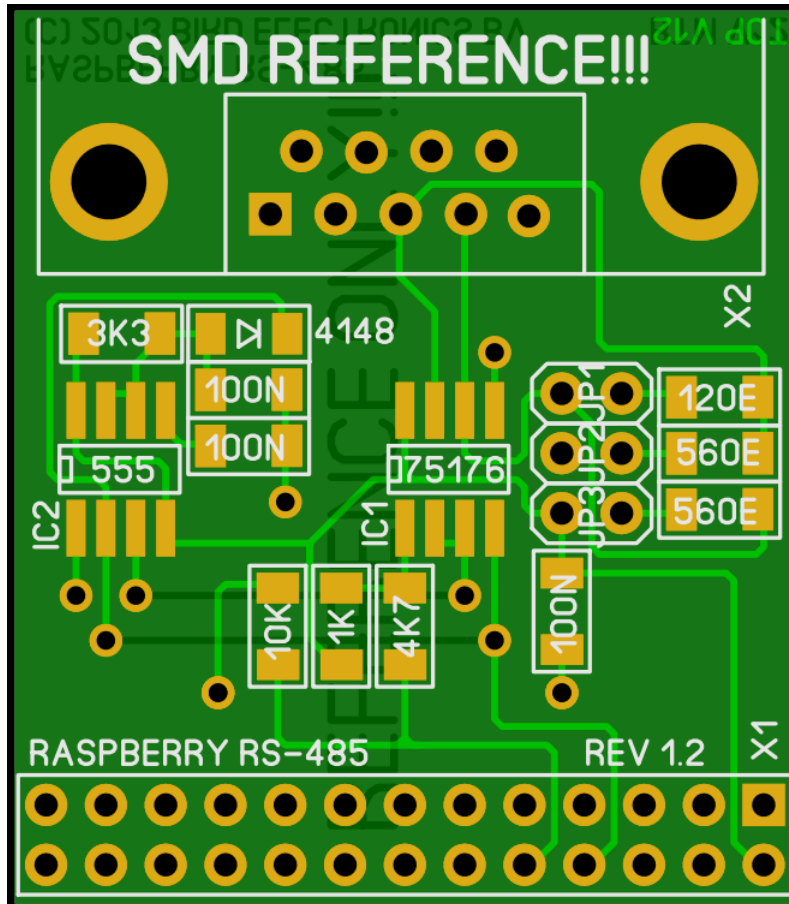
```
T0:23:respawn:/sbin/getty -L ttYAMA0 115200 vt100
```

And comment it out by adding `#` to the start of it. You can then save this file and exit nano like you did before.

Now you have made these changes we can reboot the Raspberry PI.

```
$sudo reboot
```

Your serial port should now be ready for you to use in your own software.



JP1 – RS485 Terminator

JP2 & JP3 – Voltage correction.