

Settings for UART use via the terminal

The following steps are for using the PL011 UART port

For all pis:

- open terminal
- use command
 `sudo nano /boot/config.txt`
- add to bottom of file
 `dtoverlay=pi3-miniuart=bt`
- save edit and exit back to terminal
- use command
 `sudo reboot`

The following steps are for disabling the serial console

For all pis:

- open terminal
- use command
 `sudo nano /boot/cmdline.txt`
- find text below and remove it
 `console=serial0,115200`
- save edit and exit back to terminal
- use command
 `sudo reboot`

After these steps, can now access UART serial port at `/dev/ttyAMA0`

Just to make sure serial connections using the pins can be used, do the following steps

- open terminal
- use command
 `sudo raspi-config`
- select Interfacing Options
- select Serial
- select <No>
- select <Yes>
- select <Finish>
- reboot pi if asked to

“These steps are for the mini UART, which we are not using, but it's just for my sanity to do this”

- Denisse :))

Testing if settings for UART use are correct

To test if the settings were set correctly, go through this list:

- have both pis turned on and ready to use
- have a terminal open on both pis
- for both pis, use command

```
stty -F /dev/ttyAMA0 9600
```

9600 is the baud rate

- for the pi that is receiving the information, use command
- ```
cat < /dev/ttyAMA0
```

This command should hang with no output until the transmitter command has been executed

- for the pi that is transmitting the information, use command
- ```
echo "Some text here" > /dev/ttyAMA0
```

The command below can be used if you would like to print out the content of a text file on the receiver

```
cat someTextFile.txt > dev/ttyAMA0
```

Whatever is put in for "Some text here" or whatever content is in the file, it should be printed out on the terminal of the receiving pi