

Creating 4tronix SD Card Image

Setup SD Card

This sequence sets up an SD card as used by 4tronix

Setup OS and I2C

1. Download the latest Raspbian Jessie image (currently 27/5/2015)
 - a. For Windows, burn to the SD card using Win32DiskImager available [from here](#)
 - b. For Mac, use ApplePi Baker [from here](#)
2. Use Win32DiskImager to copy the image to a blank SD card
3. Boot into the card and within raspi-config set up the following:
 - a. Boot to desktop
 - b. Resize the card
 - c. Advanced options, setup I2C and load on boot
4. Save and reboot

Setup I2C SMBus

1. `sudo apt-get install python-smbus python3-smbus python-dev python3-dev`
2. `sudo nano /boot/config.txt`
and add the following 2 lines to the end of the file:
 1. `dtoverlay=i2c1=on`
 2. `dtoverlay=i2c_arm=on`

Press <ctrl-x> and accept the default prompts to save the file

Install VNC

1. `wget http://goo.gl/MbfUEp -O isx11.sh`
2. `sudo bash isx11.sh`
3. Depending on the VNC client you use, you may want to remove the `--display` and `--file transfer` commands from the startup file
 - `cd .config/autostart`
 - `sudo nano x11vnc.desktop`
 - remove everything after `"Exec=x11vnc -forever -usepw"` on that line
 - (also remove the `--usepw` if you don't want to enter a password each time)
 - save and exit
4. `sudo reboot`

Install ScratchGPIO

1. `wget http://bit.ly/1wxrqpdp -O isgh7.sh`
2. `sudo bash isgh7.sh`

Install and Test Pi2Go Software

- `wget http://4tronix.co.uk/pi2go.sh -O pi2go.sh`
- `bash pi2go.sh`
- `cd pi2go`
- `sudo python motorTest.py`

Download support for other boards similarly