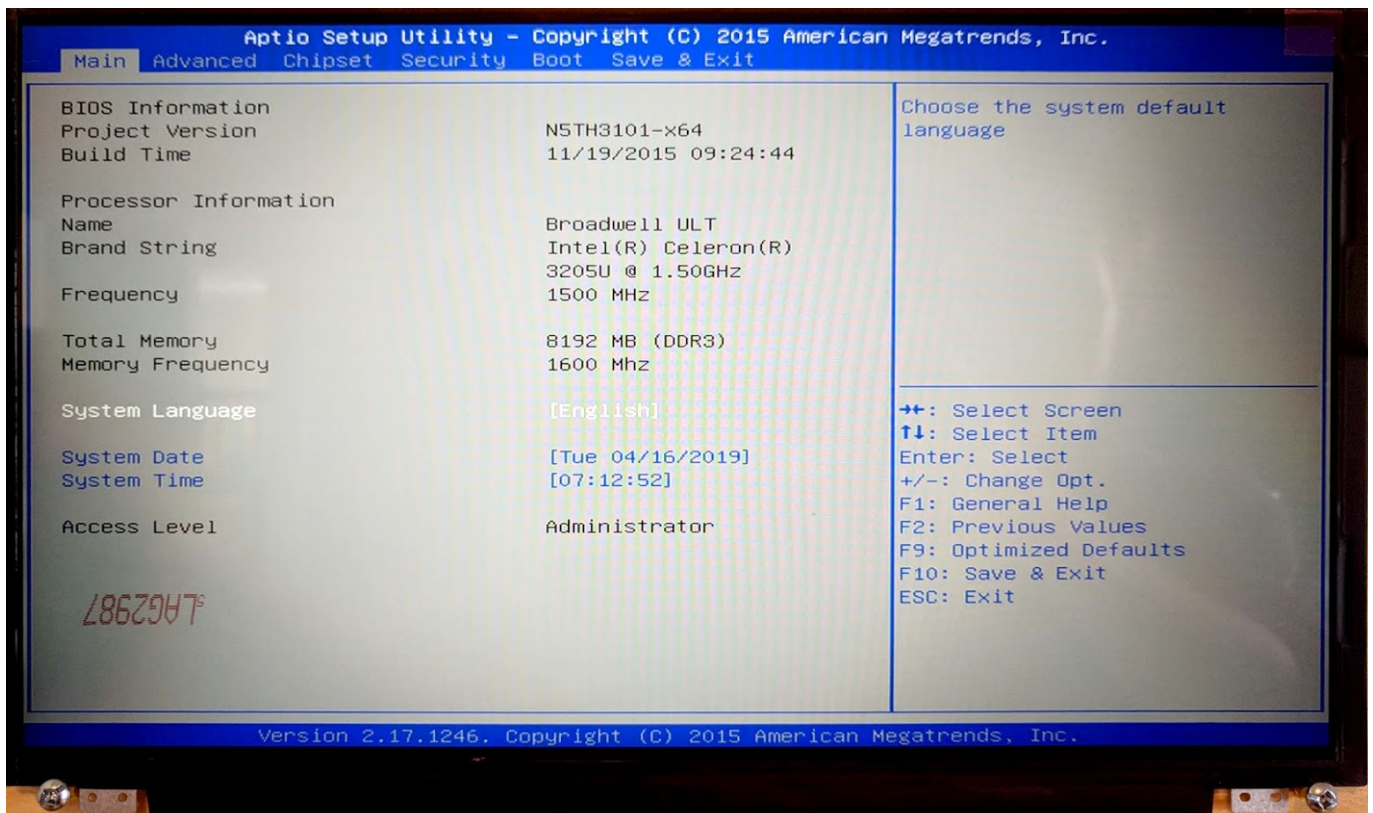


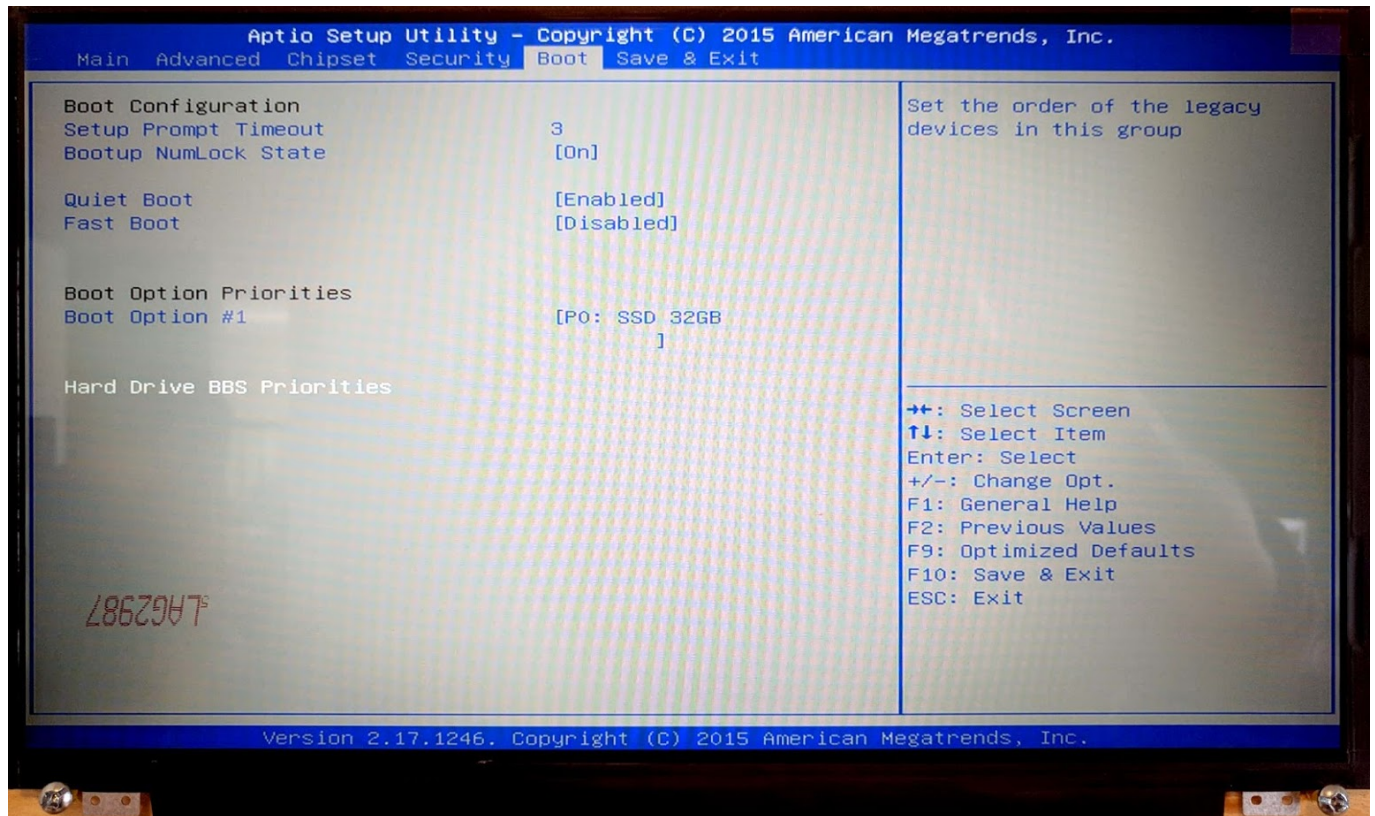
## MyCNC Quick Start

### Installing Ubuntu MATE 16.04 through LiveCD with preinstalled myCNC software

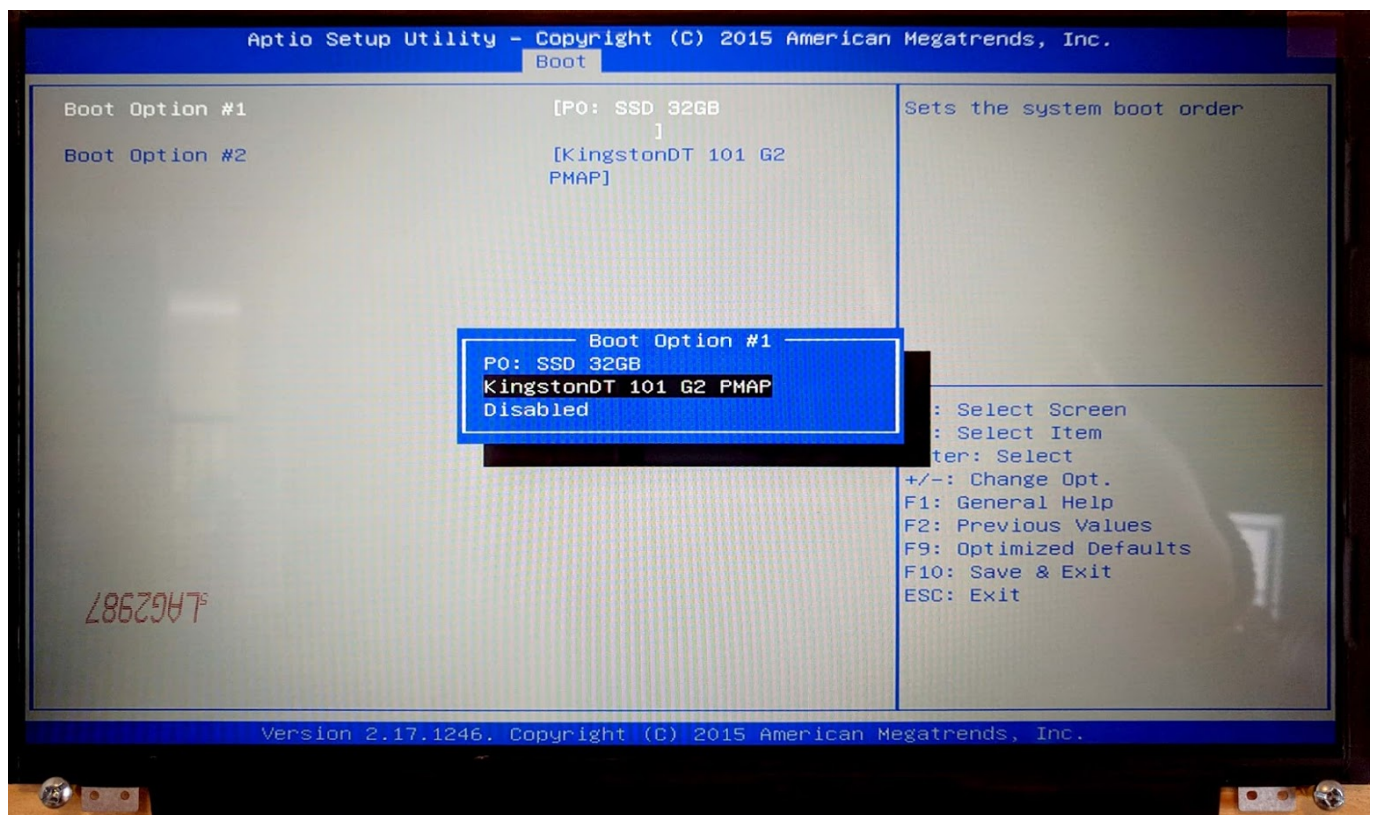
- The LiveCD image can either be burned onto a DVD, or written on a USB disk through the use of [Etcher](#) or [Rufus](#) software. The LiveCD installation packages can be downloaded [here](#).
- Connect the power cable, the screen through the HDMI or VGA cable, keyboard, mouse and the LiveCD with Ubuntu Mate 16.04 to the computer
- When booting up the computer, hold the Delete key to enter the BIOS



- In the BIOS screen, navigate to the **Boot** tab

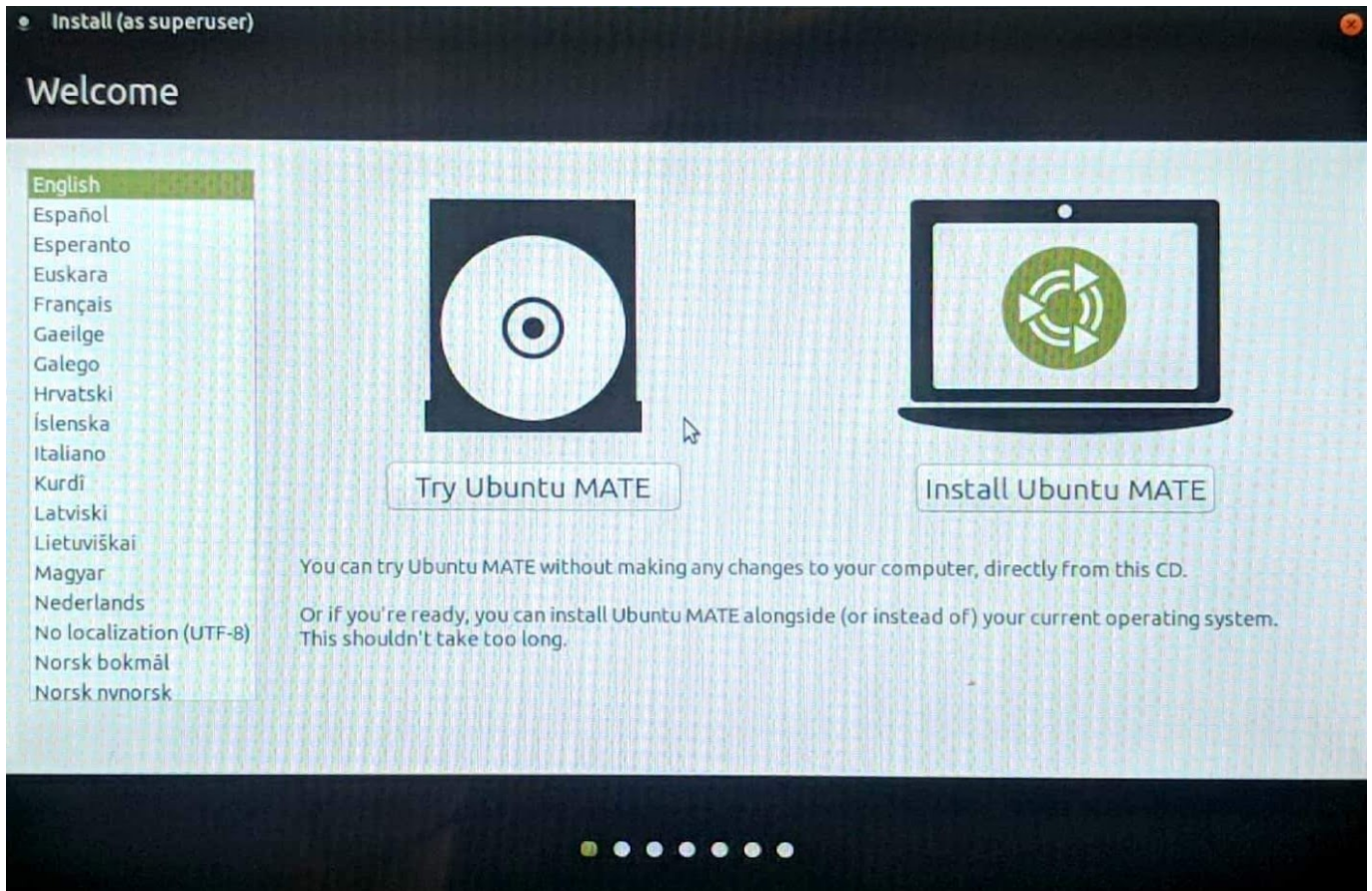


- Select the **Hard Drive BBS Priorities**
- For **Boot Option #1**, switch the SSD 32GB to KingstonDT 101 G2 PMAP

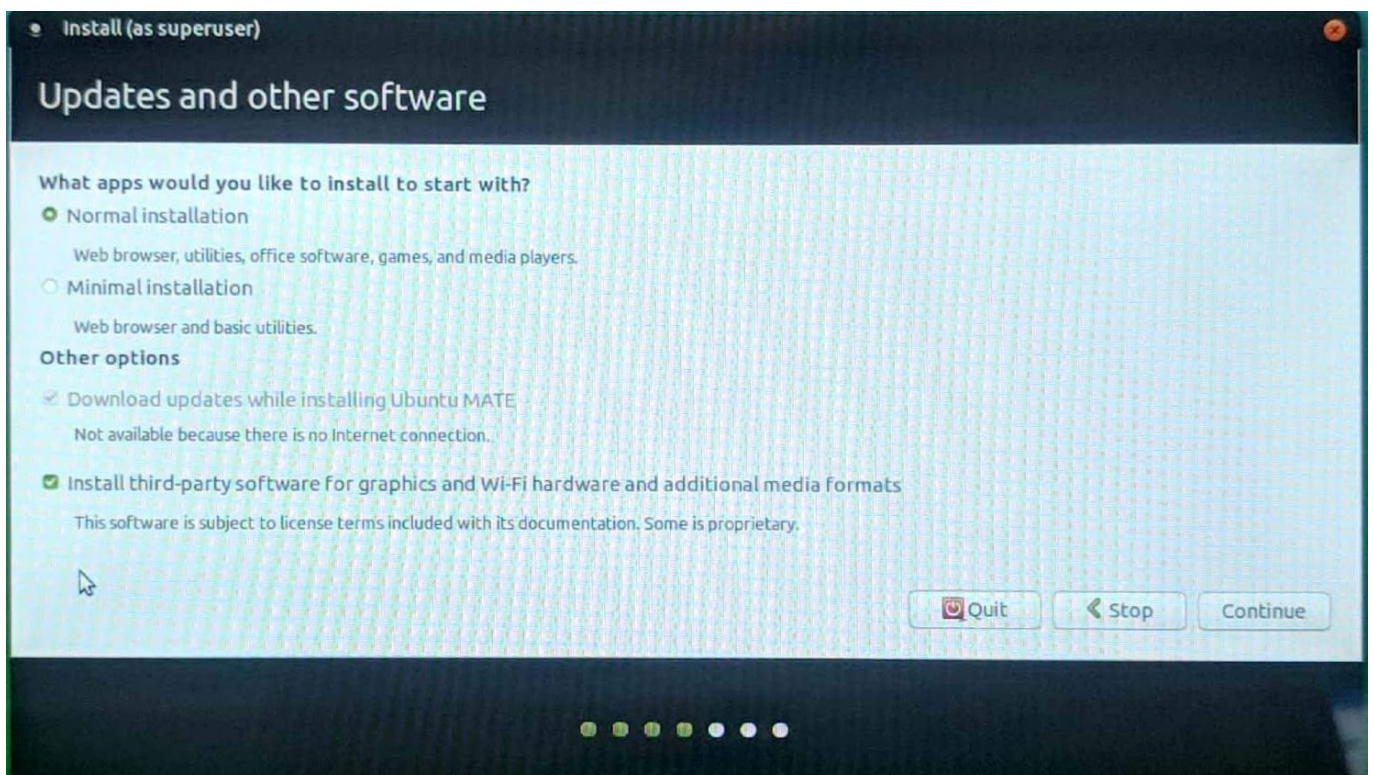


- Save & Exit by pressing F10. The boot-up will begin shortly
- In the pop-up window, select the **Install Ubuntu MATE** option



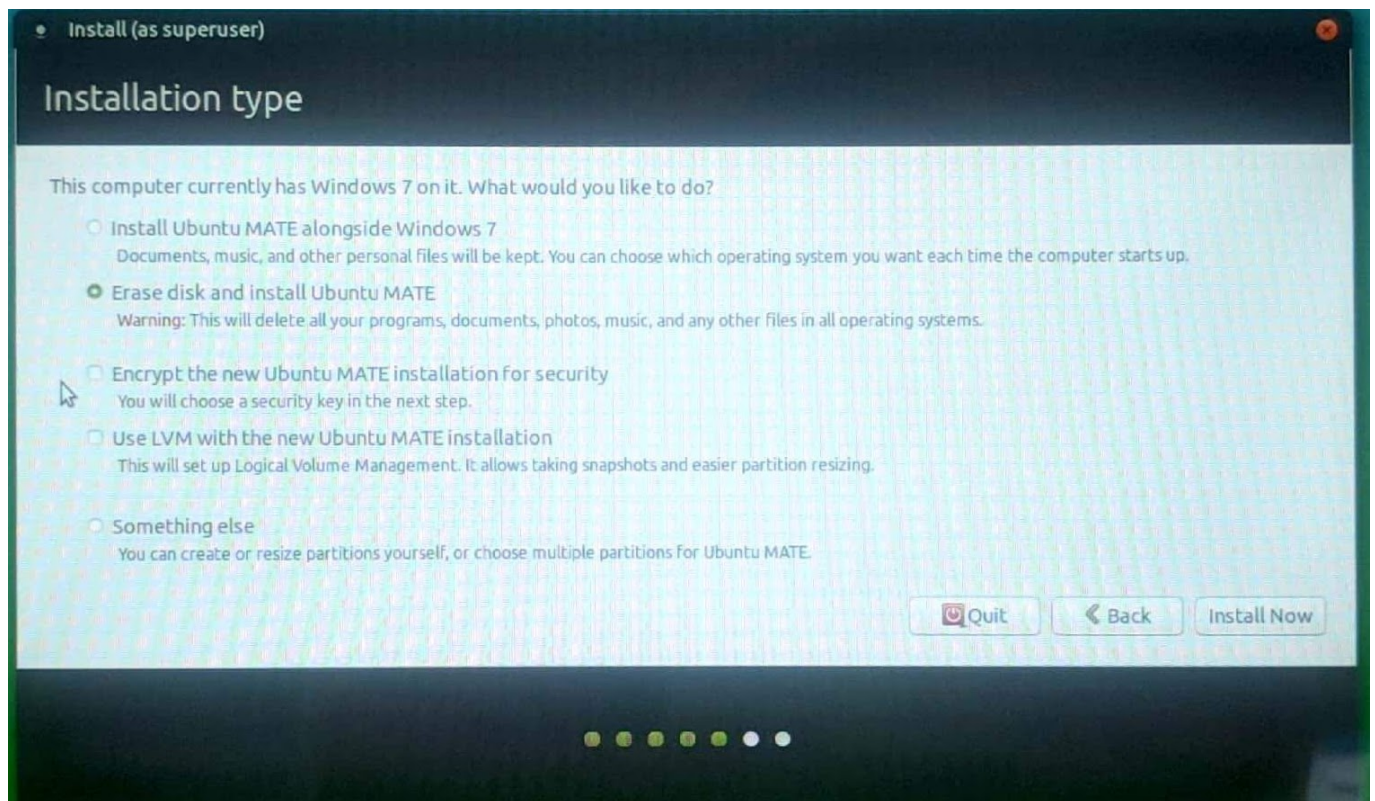


- Select **Normal Installation**, and check the **Install third-party software** check mark at the bottom of the next screen

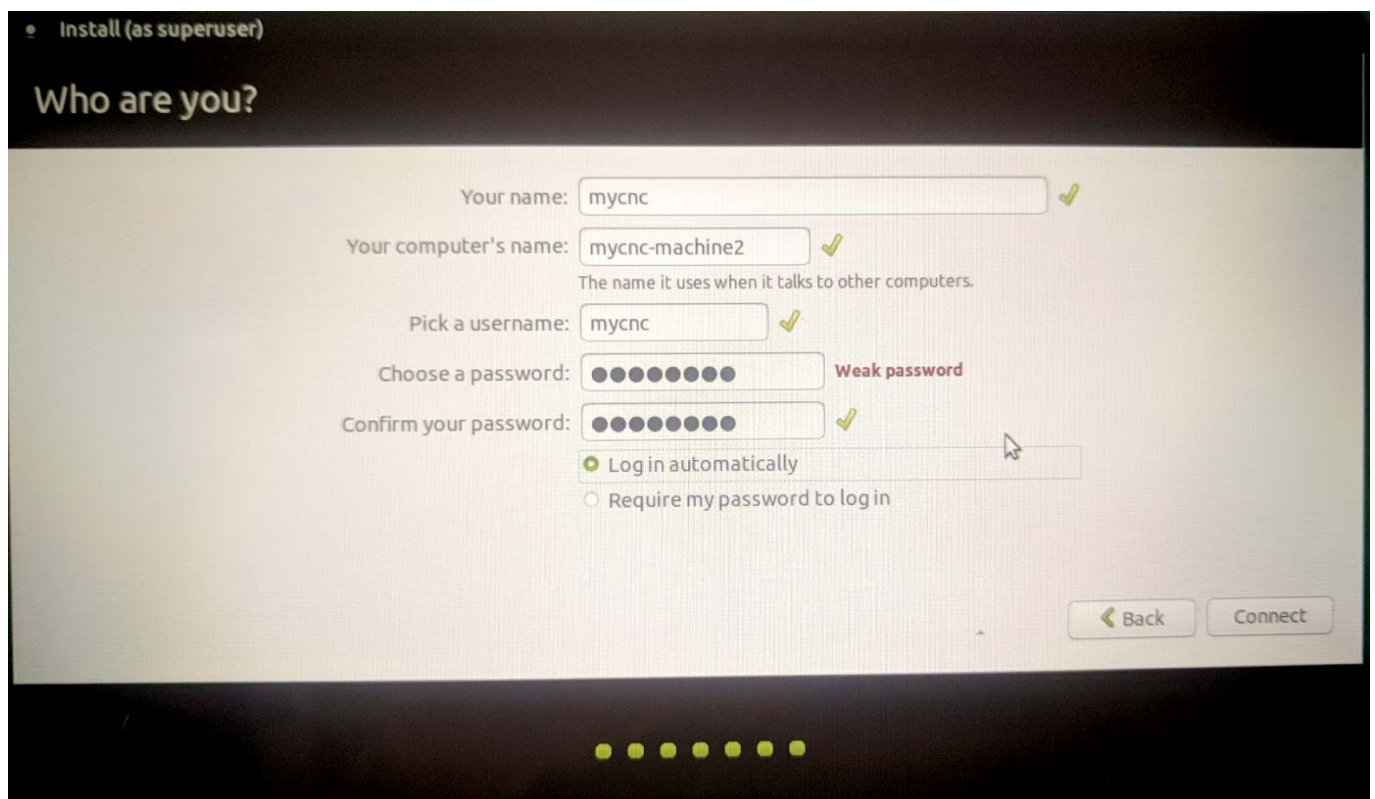


- Select the **Erase disk and install Ubuntu MATE option** if you want to format the Windows partition, leaving only Ubuntu MATE on the computer





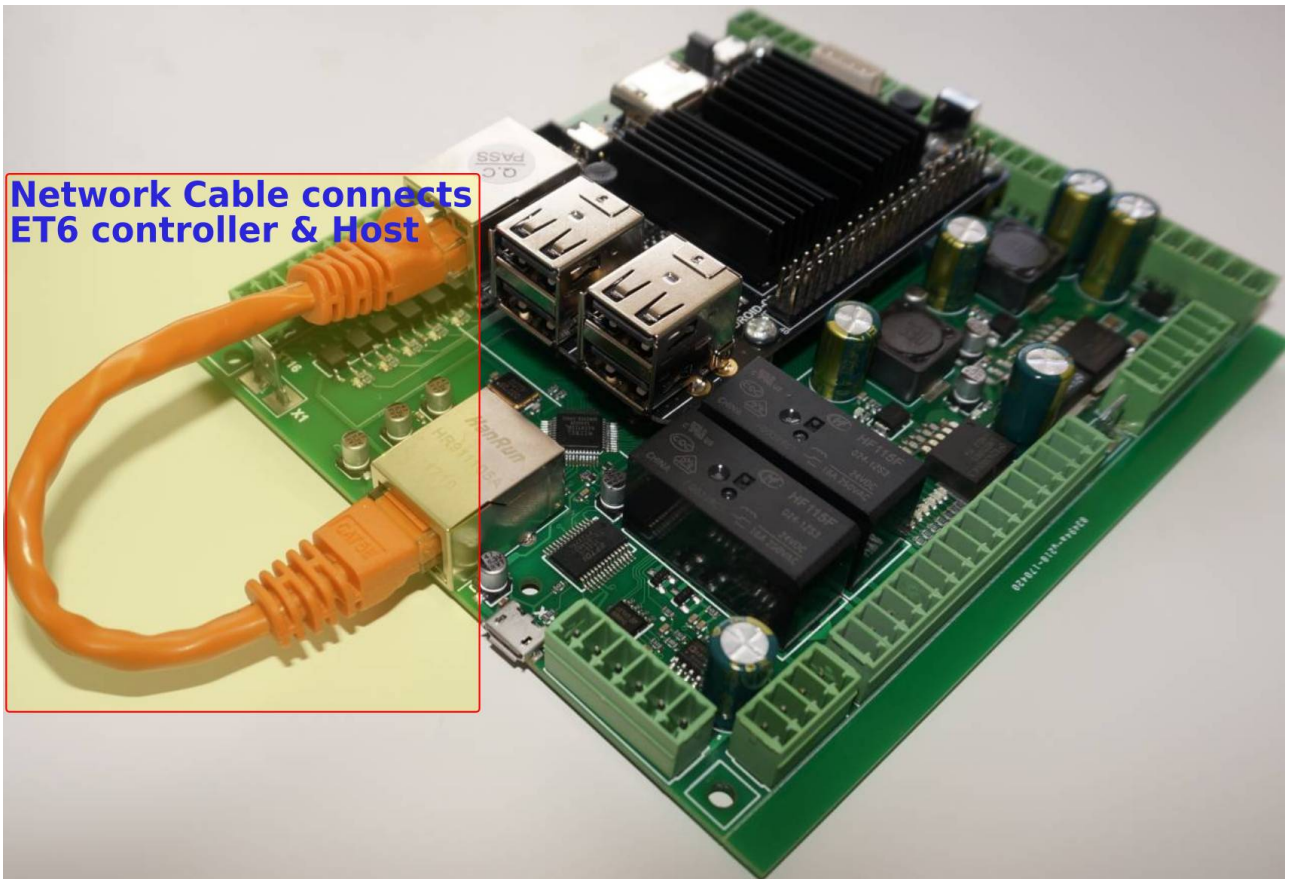
- Select your timezone
- In the *Who are you?* screen, use **mycnc** as the username to access the presets that are applied during the installation of the myCNC software. NOTE: These presets include the **mycnc** user in groups such as dialout (scanners), sudo (security privileges of superuser), and sambashare (SMB/CIFS networking protocol for Windows). These presets are strongly recommended for novice users.
- Select the **Log in automatically** option



The installation of Ubuntu MATE will begin momentarily.

## Setting up the myCNC control board

- Connect 24V DC power supply to myCNC control board
  - Here are power-up examples for ET6, ET7, ET10 control boards
- Connect myCNC Ethernet controller with Network cable directly to Host computer or to Network Router. If use Odroid-C2 (Raspberry-Pi3) computers as a Host, Network cable is a short 0.5ft cable between Odroid & Controller



- Setup Network addresses for Host computer and myCNC Ethernet controller. Addresses of Controller and Host should be in same local network. For Example -

```
Controller Address: 192.168.0.78  
Host Address: 192.168.0.100
```

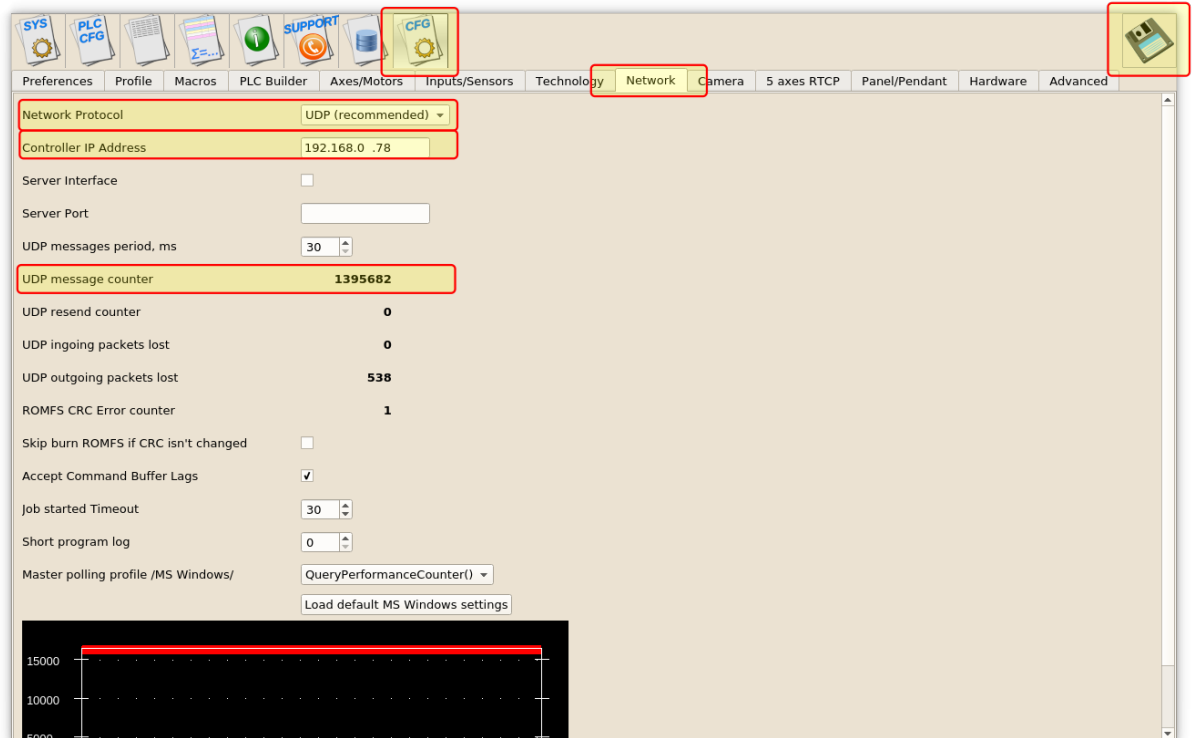
or

```
Controller Address: 192.168.5.10  
Host Address: 192.168.5.11
```

Look [here](#) if need to change IP address of controller board

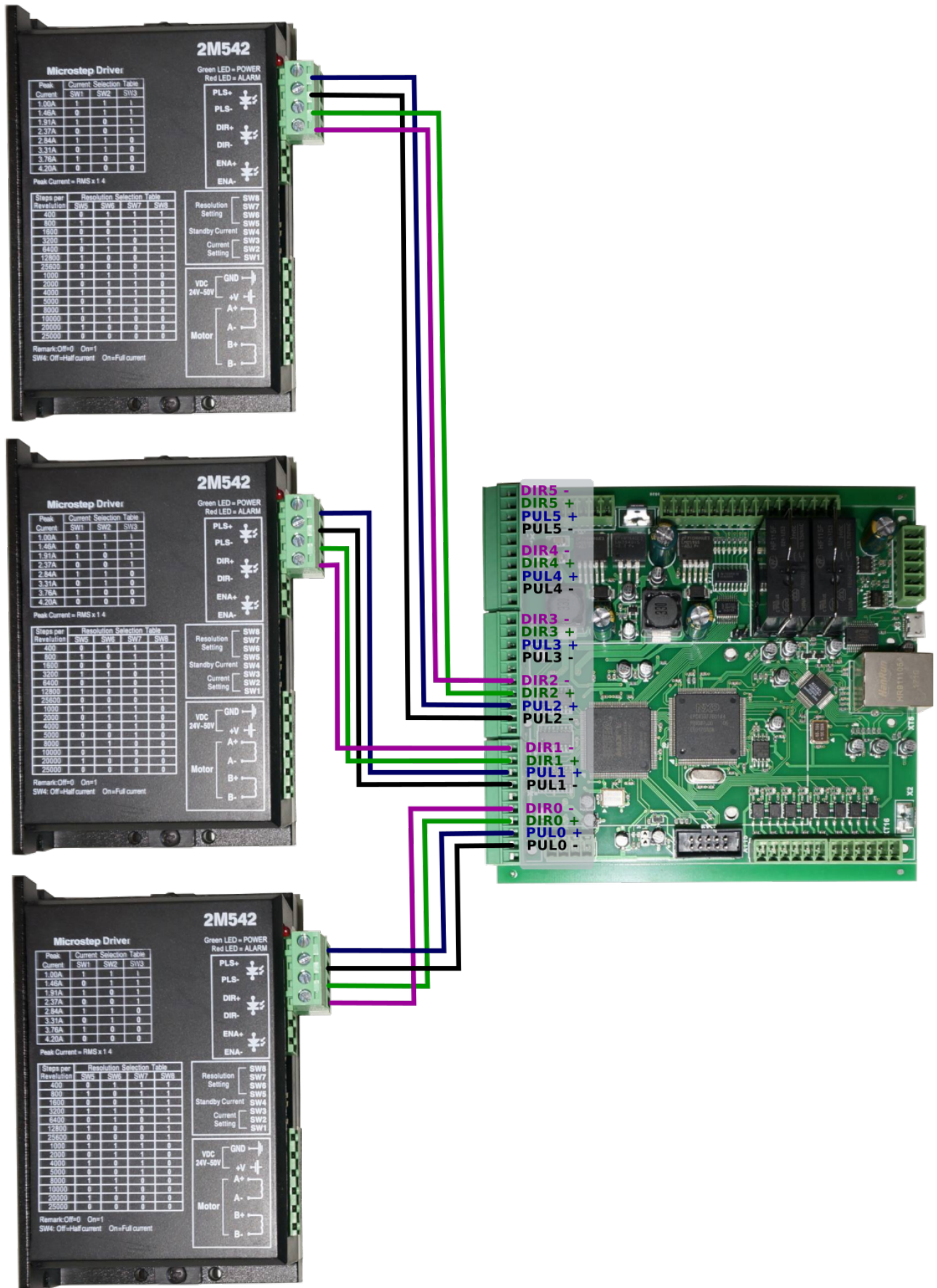
- Goto MyCNC software, Cfg Settings, Network Tab and
  - Set actual Controller IP address to "Controller IP Address" to tell the software where it can find myCNC Controller,
  - Set "Network Protocol" to "UDP",
  - press "Save" button on the top-right of myCNC screen.

- Changes should be applied on the fly and **UDP message counter** should start counting which means communication between Controller & Host works correct.

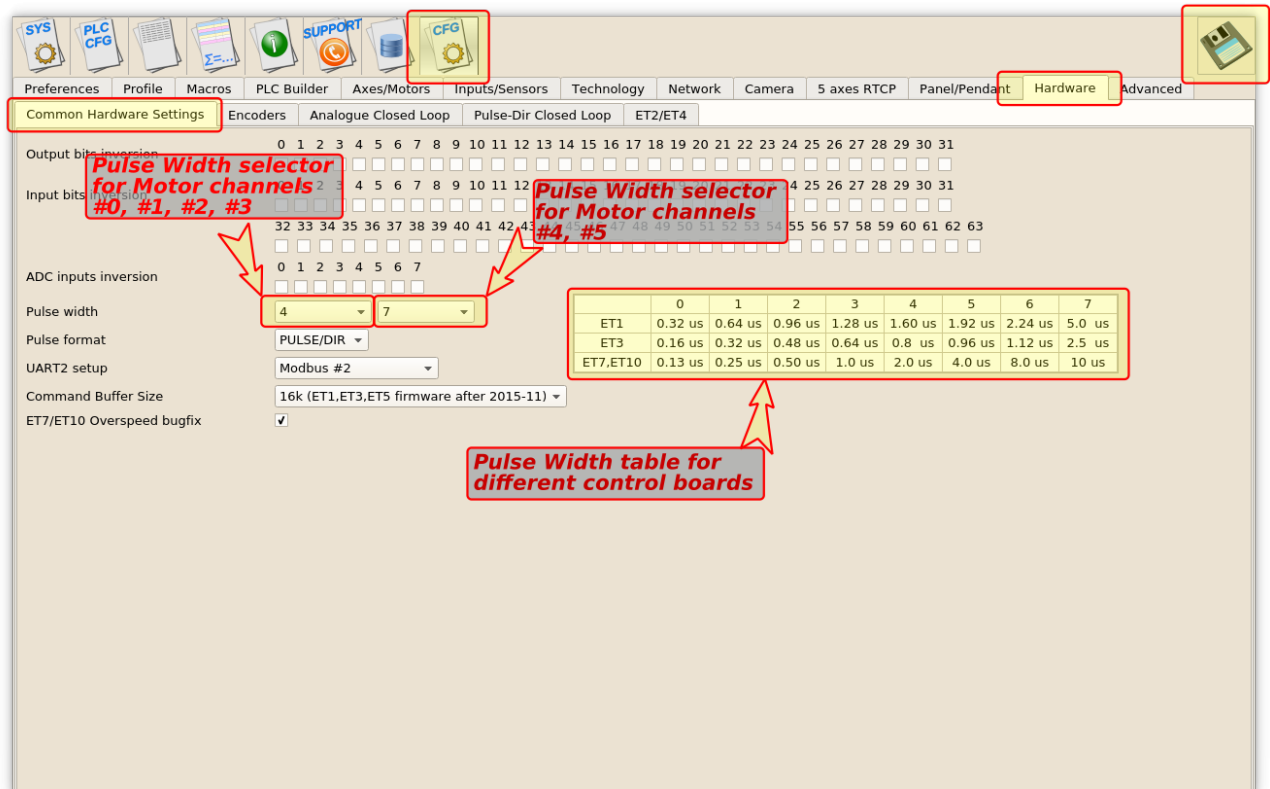


- Connect Pulse-Dir signals from servo or stepper driver to myCNC control board





- Check what minimal pulse width your drivers accept and set pulse width of myCNC control board accordingly (equal or more) in MyCNC software → Cfg Settings → Hardware Tab → Common Hardware Settings



MyCNC-ET6, myCNC-ET7 controllers support separate pulse width settings for the first 4 channels (#0, #1, #2, #3) and the rest 2 (#4, #5). This option can be convenient if use high performance servo drivers with low speed stepper drivers (for example high speed servos for X, Y, Z axes and low speed stepper for rotational A axis). myCNC-ET10 controller use only the first pulse width selector for all motor outputs.

From:

<http://docs.pv-automation.com/> - **myCNC Online Documentation**

Permanent link:

<http://docs.pv-automation.com/quickstart/mycnc-quick-start?rev=1555431436>

Last update: **2019/04/16 12:17**

