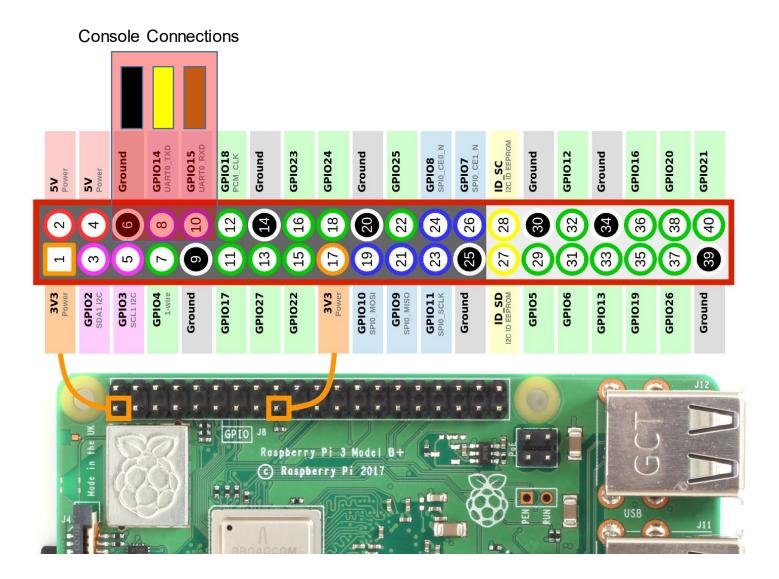
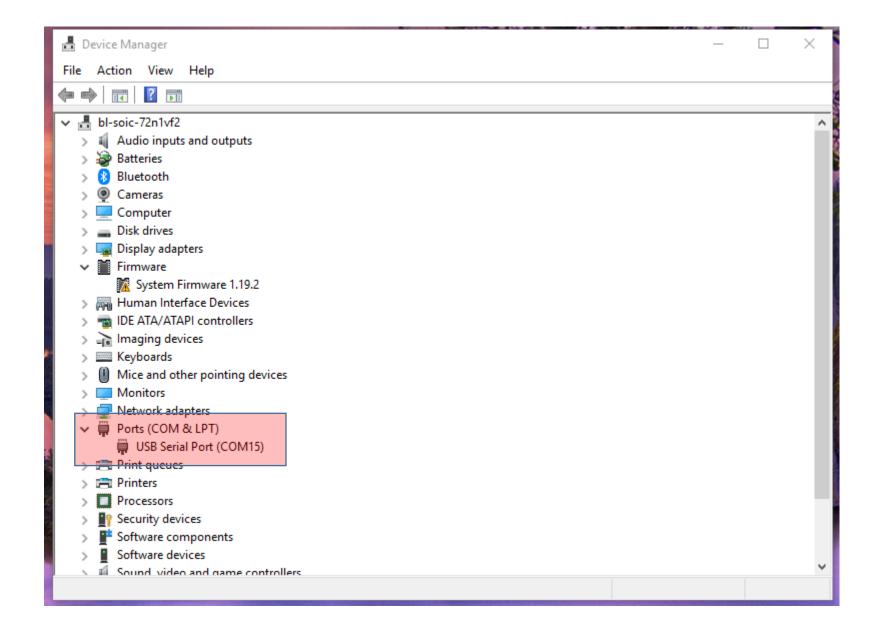


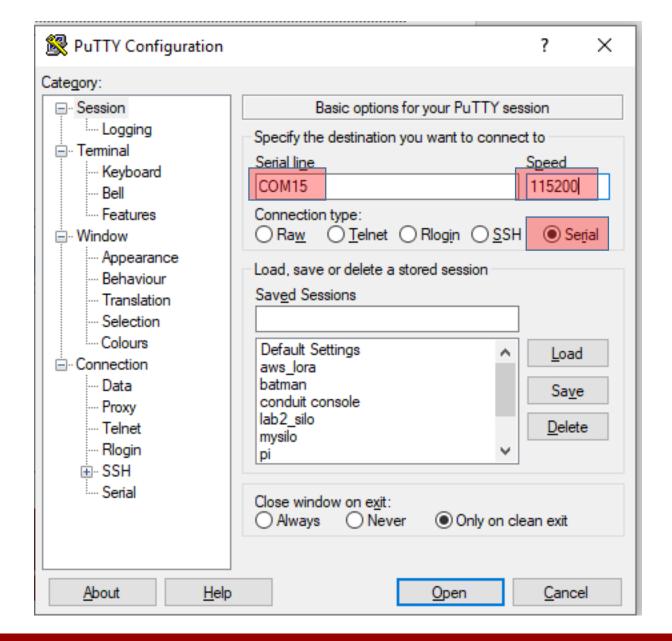
E210/B441 Pl Serial Port Setup



Connecting with Putty

- Connect USB cable
- Determine the COM port of FTDI cable
- Connect to COM port using Putty

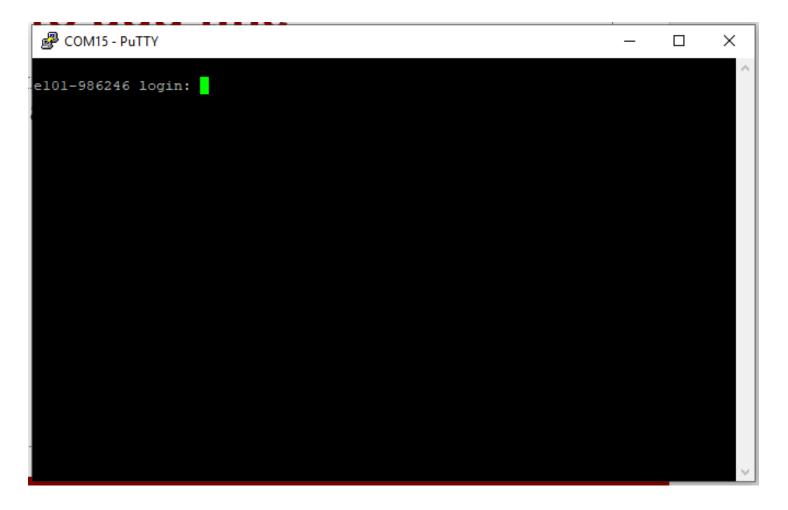




Might have to hit Enter a couple of times \dots

Username: pi

Password: e101class



Connecting with Mac/Linux

- Connect the USB/Serial Cable
- Look in the /dev directory to find name of device.
 - Linux: ttyUSBx where x is an integer starting at 0
 - MacOS: cu.x where x is likely something like usbserial
- Connect to the device using screen
- https://pbxbook.com/other/mac-tty.html

```
dev: bash — Konsole
                                                                                                                                   ×
               Bookmarks Settings Help
File
     Edit
         View
bhimebau@mercury:/dev$ ls
                                                               tty11
                                                                       tty31
                                                                               tty51
                                                                                           ttyS12
agpgart
                  hidraw0
                              loop20
                                                    ptmx
                                                                                                    ttyS4
                                                                                                              vcsa3
                                                                tty12
                                                                                           ttyS13
autofs
                  hpet
                              loop3
                                                                       tty32
                                                                               tty52
                                                                                                    ttyS5
                                                    pts
                                                                                                              vcsa4
                                                                                                    ttyS6
block
                                                               tty13
                                                                               tty53
                                                                                           ttyS14
                  hugepages
                              loop4
                                                    random
                                                                       tty33
                                                                                                              vcsa5
                                                    rfkill
                                                               tty14
                                                                                           ttyS15
                                                                                                    ttyS7
                                                                       tty34
                                                                               tty54
bsq
                  hwrng
                              loop5
                                                                                                              vcsa6
                                                                tty15
                                                                       tty35
                                                                               tty55
                                                                                           ttyS16
                                                                                                    ttyS8
btrfs-control
                              loop6
                                                                                                              vcsa7
                                                                tty16
bus
                  input
                              loop7
                                                    rtc0
                                                                       tty36
                                                                               tty56
                                                                                           ttyS17
                                                                                                              Vfio
                                                               tty17
                                                                                           ttyS18
                                                                                                              vga_arbiter
                                                                       tty37
                                                                               tty57
                  kmsq
                              loop8
                                                    sda
                                                                                                    ttyUSB0
                  lightnvm
                                                    sda1
                                                               tty18
                                                                       tty38
                                                                               tty58
                                                                                           ttyS19
                                                                                                              vhcī
                              loop9
                                                                                                    uhid
                                                               tty19
                                                                       tty39
                                                                               tty59
                                                                                           ttyS2
char
                              loop-control
                                                    serial
                                                                                                    uinput
                                                                                                              vhost-net
                                                                tty2
                                                                                           ttyS20
console
                  loop0
                                                    sg0
                                                                       tty4
                                                                               tty6
                                                                                                    urandom
                                                                                                              vhost-vsock
                              mapper
                                                                                           ttyS21
                  loop1
                                                    sg1
                                                               tty20
                                                                       tty40
                                                                               tty60
                                                                                                    userio
                                                                                                              vmci
                              mcelog
                                                               tty21
                                                                       tty41
                                                                                           ttyS22
cpu dma latency
                  loop10
                              mem
                                                    shm
                                                                               tty61
                                                                                                    vcs
                                                                                                              vsock
                              memory_bandwidth
                                                               tty22
                                                                       tty42
                                                                                           ttyS23
                  loop11
                                                                               tty62
                                                                                                    vcs1
cuse
                                                    snapshot
                                                                                                              zero
disk
                  loop12
                                                                tty23
                                                                       tty43
                                                                               tty63
                                                                                           ttyS24
                                                                                                    vcs2
                              midi
                                                    snd
lmmidi
                  loop13
                                                               tty24
                                                                       tty44
                                                                                           ttyS25
                                                    sr0
                                                                               tty7
                                                                                                    vcs3
dri
                  loop14
                                                               tty25
                                                                       tty45
                                                                               tty8
                                                                                           ttvS26
                                                                                                    vcs4
                              net
                  loop15
                                                               tty26
                                                                       tty46
                                                                               tty9
                                                                                           ttyS27
                              network latency
                                                                                                    vcs5
                  loop16
                                                               tty27
                                                                                           ttyS28
ecryptfs
                              network_throughput
                                                                       tty47
                                                                               ttyprintk
                                                                                                    vcs6
fb0
                  loop17
                                                               tty28
                                                    tty
                                                                       tty48
                                                                               ttyS0
                                                                                           ttyS29
                              null
                                                                                                    vcs7
                  loop18
                                                               tty29
                                                                       tty49
                                                                               ttyS1
                                                                                           ttyS3
                                                    tty0
                              port
                                                                                                    vcsa
                                                                                           ttyS30
full
                  loop19
                                                    tty1
                                                               tty3
                                                                       tty5
                                                                               ttyS10
                                                                                                    vcsa1
                              ppp
fuse
                  loop2
                                                    tty10
                                                               tty30
                                                                       tty50
                                                                               ttyS11
                                                                                           ttyS31
                                                                                                   vcsa2
                              psaux
bhimebau@mercury:/dev$
```

dev: bash — Konsole

File Edit View Bookmarks Settings Help

bhimebau@mercury:/dev\$ screen /dev/ttyUSB0 115200

File Edit View Bookmarks Settings Help
e101-986246 login:

After logging into the machine:

Username: pi

Password: e101class

```
dev:screen — Konsole

File Edit View Bookmarks Settings Help

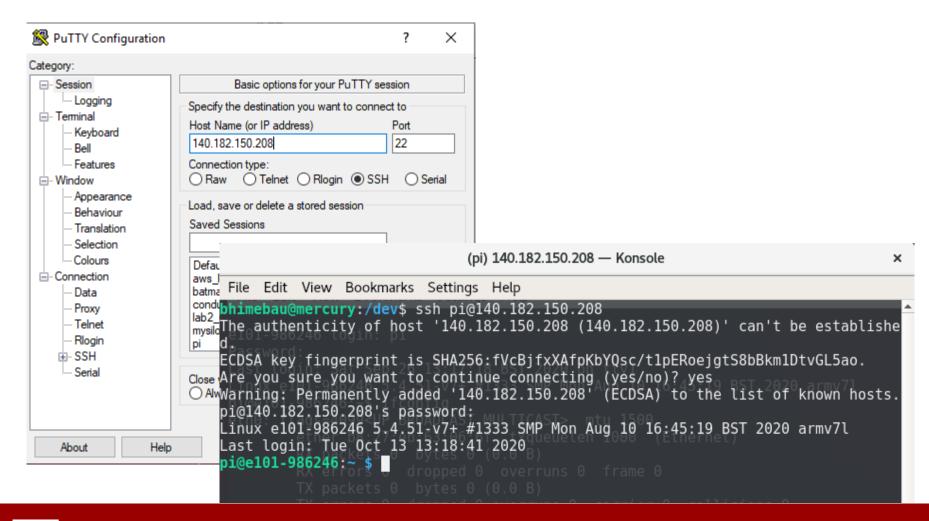
e101-986246 login: pi
Password:
Last login: Sat Sep 26 13:17:18 BST 2020 on tty1
Linux e101-986246 5.4.51-v7+ #1333 SMP Mon Aug 10 16:45:19 BST 2020 armv7l
pi@e101-986246:~$ ■
```

Determine IP Address

- If you are in Luddy, the PI will connect automatically to IU DeviceNet
- You should have an IP address that begins with 140.
- Use the command ifconfig to verify address of wlan0 interface

```
dev: screen - Konsole
 File Edit View Bookmarks Settings Help
e101-986246 login: pi
Password:
Last login: Sat Sep 26 13:17:18 BST 2020 on ttyl
Linux e101-986246 5.4.51-v7+ #1333 SMP Mon Aug 10 16:45:19 BST 2020 armv7l
pi@e101-986246:~$ ifconfig
eth0: flags=4099<UP,BROADCAST,MULTICAST> mtu 1500
        ether b8:27:eb:63:06:6f txqueuelen 1000 (Ethernet)
        RX packets 0 bytes 0 (0.0 B)
        RX errors 0 dropped 0 overruns 0 frame 0
        TX packets 0 bytes 0 (0.0 B)
        TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
lo: flags=73<UP,L00PBACK,RUNNING> mtu 65536
        inet 127.0.0.1 netmask 255.0.0.0
        inet6 ::1 prefixlen 128 scopeid 0x10<host>
        loop txqueuelen 1000 (Local Loopback)
        RX packets 12 bytes 720 (720.0 B)
        RX errors 0 dropped 0 overruns 0 frame 0
       TX packets 12 bytes 720 (720.0 B)
        TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
wlan0: flags<del>:4163<UP,BROADCAST</del>,RUNNING,MULTICAST> mtu 1500
        inet 140.182.150.208 netmask 255.255.252.0 broadcast 140.182.151.255
        inet6 fe80::b327:d337.9e97:7089 prefixlen 64 scopeid 0x20<link>
        ether b8:27:eb:36:53:3a txqueuelen 1000 (Ethernet)
        RX packets 265 bytes 18023 (17.6 KiB)
        RX errors 0 dropped 0 overruns 0 frame 0
        TX packets 475 bytes 73637 (71.9 KiB)
        TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
pi@e101-986246:~$
```

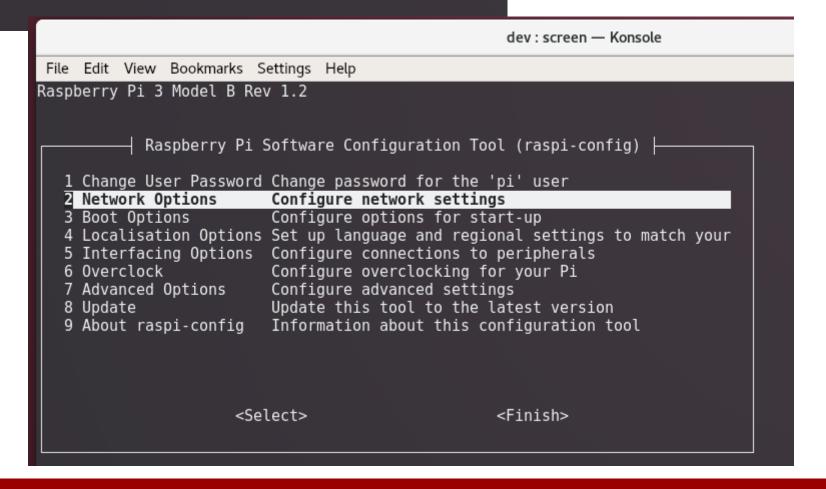
SSH to this IP Address



Not at Luddy ...

- Use the raspi-config utility to add the name and password of your wireless access point.
- Run the command using sudo. For Example:
 - "sudo raspi-config"

File Edit View Bookmarks Settings Help pi@e101-986246:~\$ sudo raspi-config



dev : screen — Konsole File Edit View Bookmarks Settings Help Raspberry Pi Software Configuration Tool (raspi-config) -Set the visible name for this Pi on a network N1 Hostname N2 Wireless LAN Enter SSID and passphrase N3 Network interface names Enable/Disable predictable network interface na N4 Network proxy settings Configure network proxy settings <Select> <Back>

						dev : screen — Konsole
File	Edit	View	Bookmarks	Settings	Help	
	Please enter SSID					
				<0k>		<cancel></cancel>