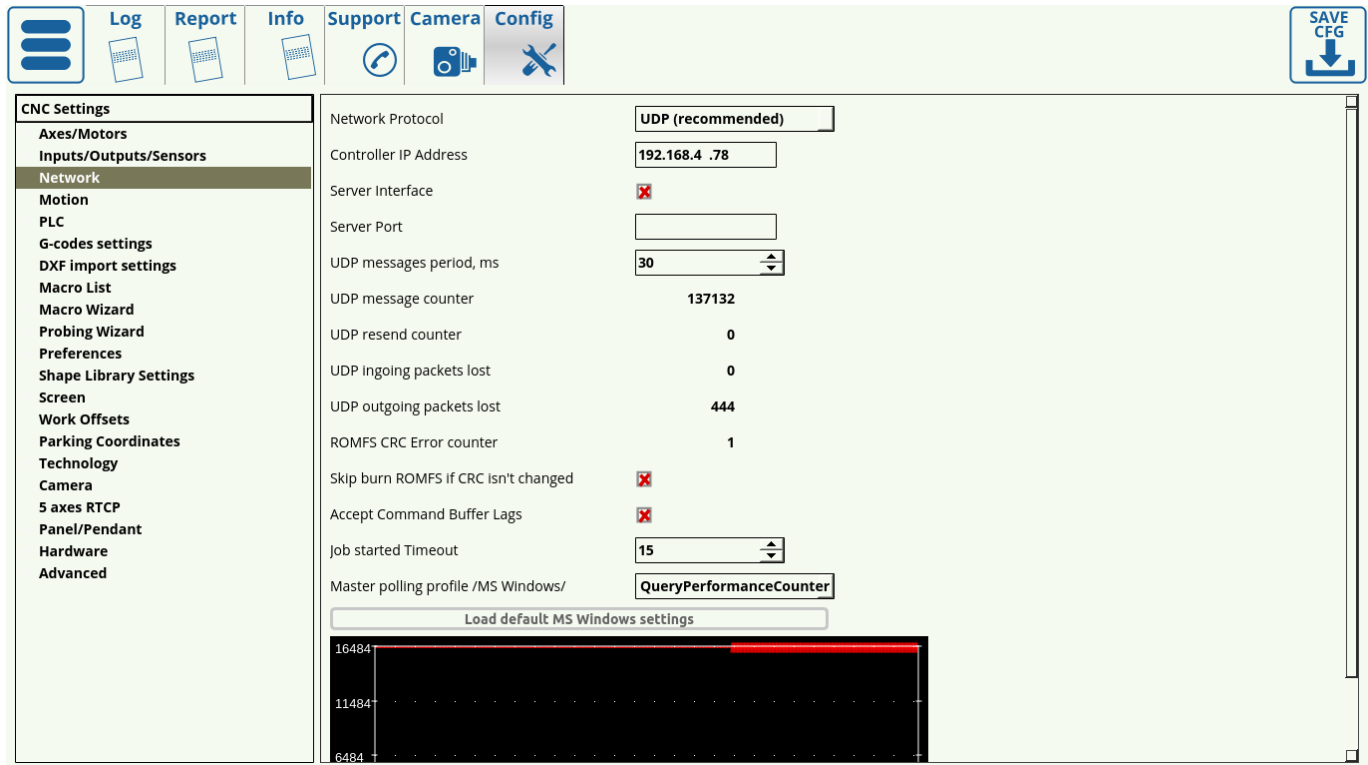


No Connection between myCNC controller and an Ubuntu Mate computer

Troubleshooting

1. Check which address is specified in the myCNC Settings.

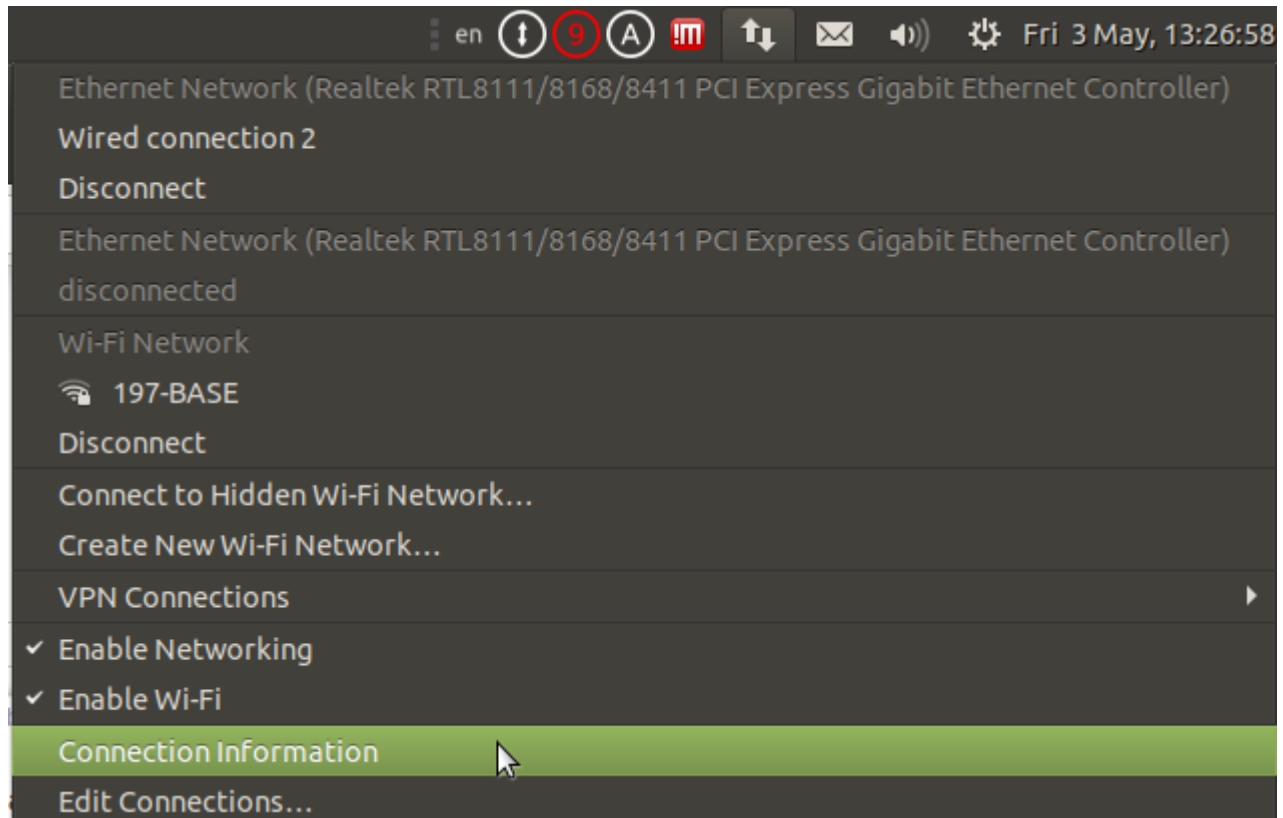
To do that, navigate over to Settings > Config > Network, and locate the Controller IP Address line:



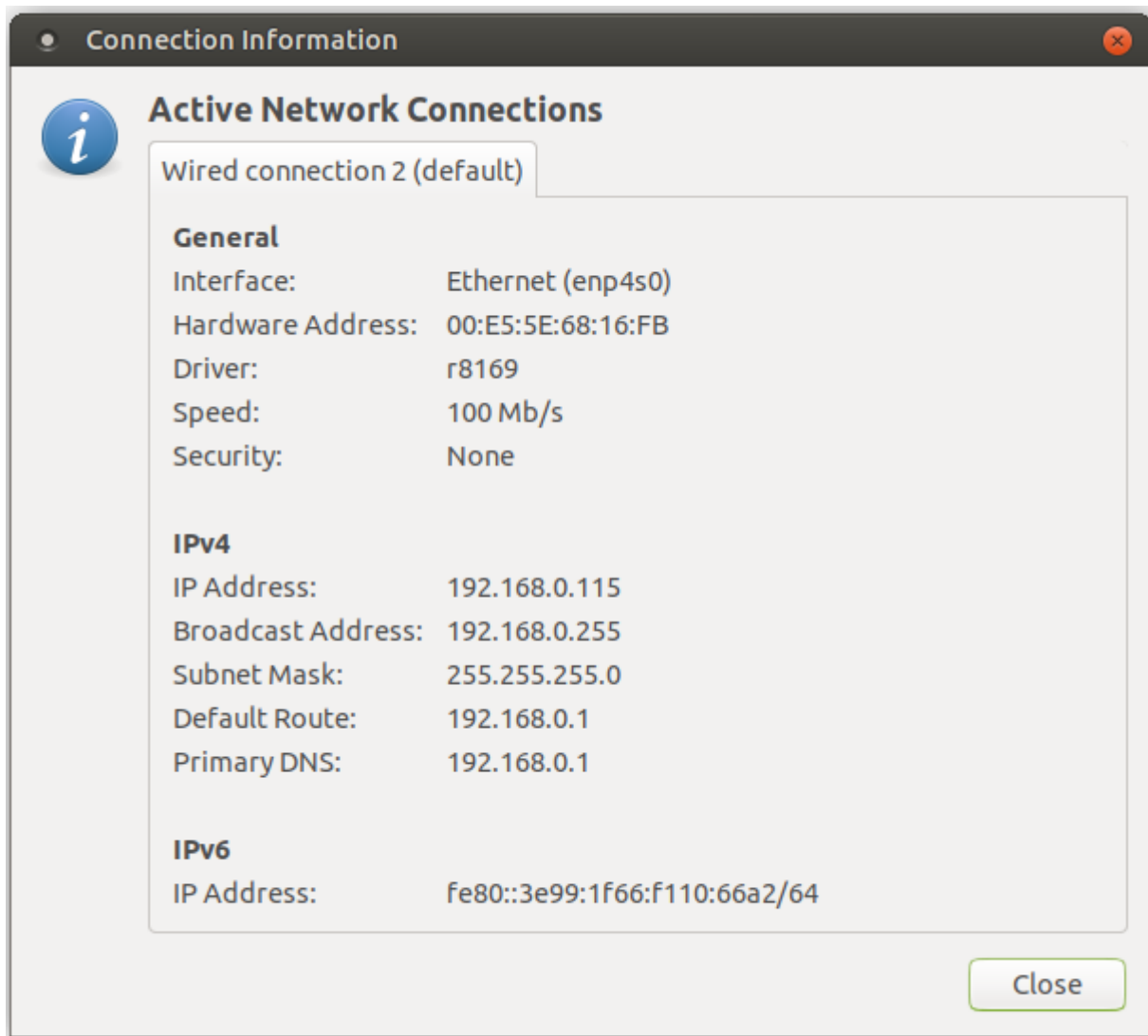
If you do know the IP address that the myCNC controller is supposed to have, confirm that it has been entered correctly. Typically, the myCNC controllers have an IP address set to 192.168.4.78 by default. Some older controller boards (usually purchased before 2017) may have a different default IP address, for instance 192.168.0.78. Enter the correct IP address and save the configuration settings. If this does not resolve the problem, go to step 2.

2. Check that the LAN (wired network) is configured on the Host Computer.

Click on the network icon on the top panel and select "Connection information" in a popup menu.

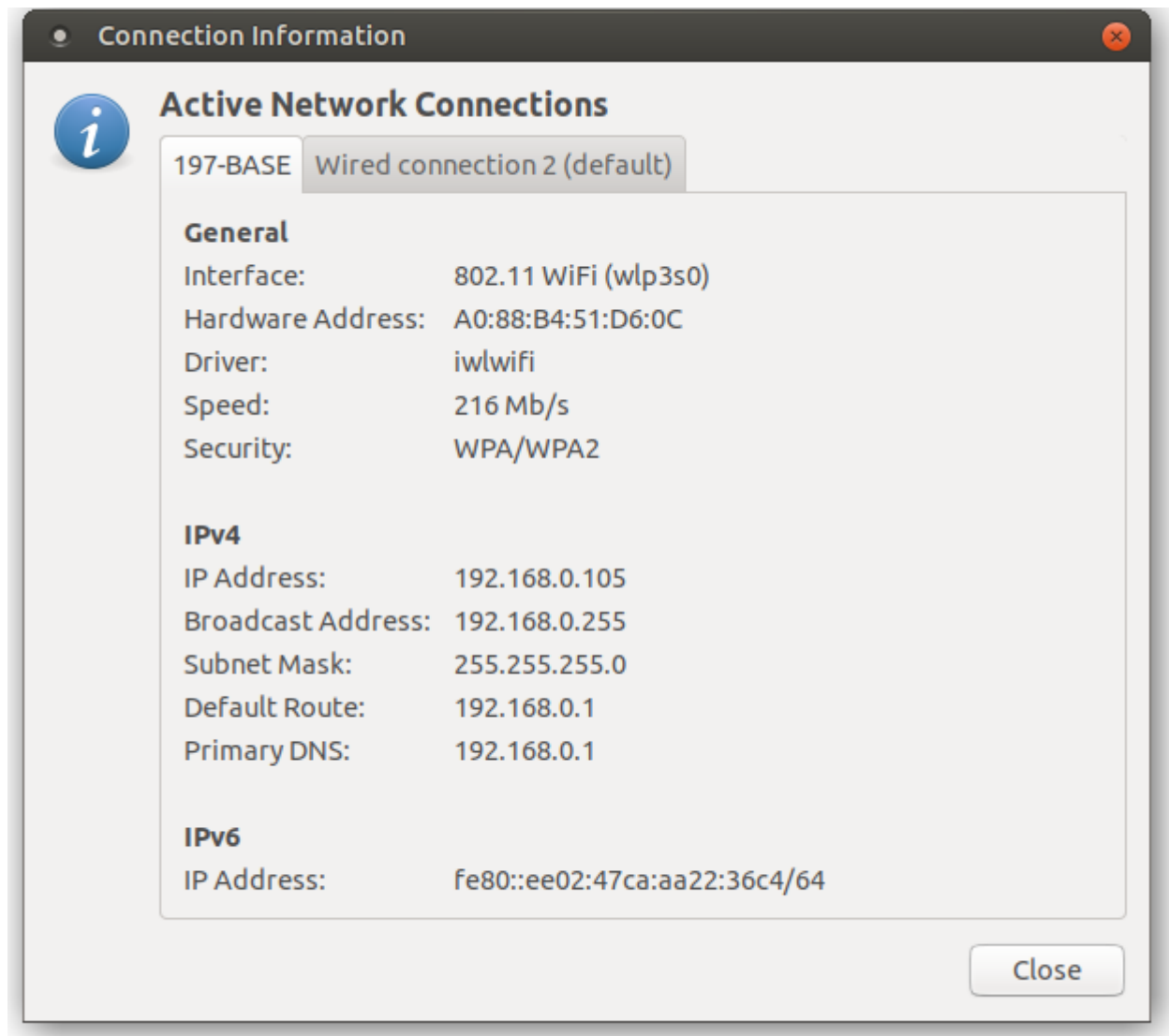


- Check what IP addresses are configured for LAN.



3. Check if WiFi network is configured and does not conflict with the LAN

- Click on the next tab (which can be your WiFi Access Point name)
- Check what IP addresses are configured for Wifi. IP addresses should be fixed if WiFi and LAN networks are on the same subnet (for example LAN is 192.168.0.105 and Wifi is 192.168.0.115)
- In case the WiFi subnet is indeed something like 192.168.0.xxx (mask 255.255.255.0), then you need to transfer the LAN to another subnet, for example 192,168,4,xxx
 - to do this: 1) reconfigure the LAN network on the computer 2) Change the IP address of the controller to another network 3) Specify the appropriate settings in the software
 - Read more about [Network Setup here](#).

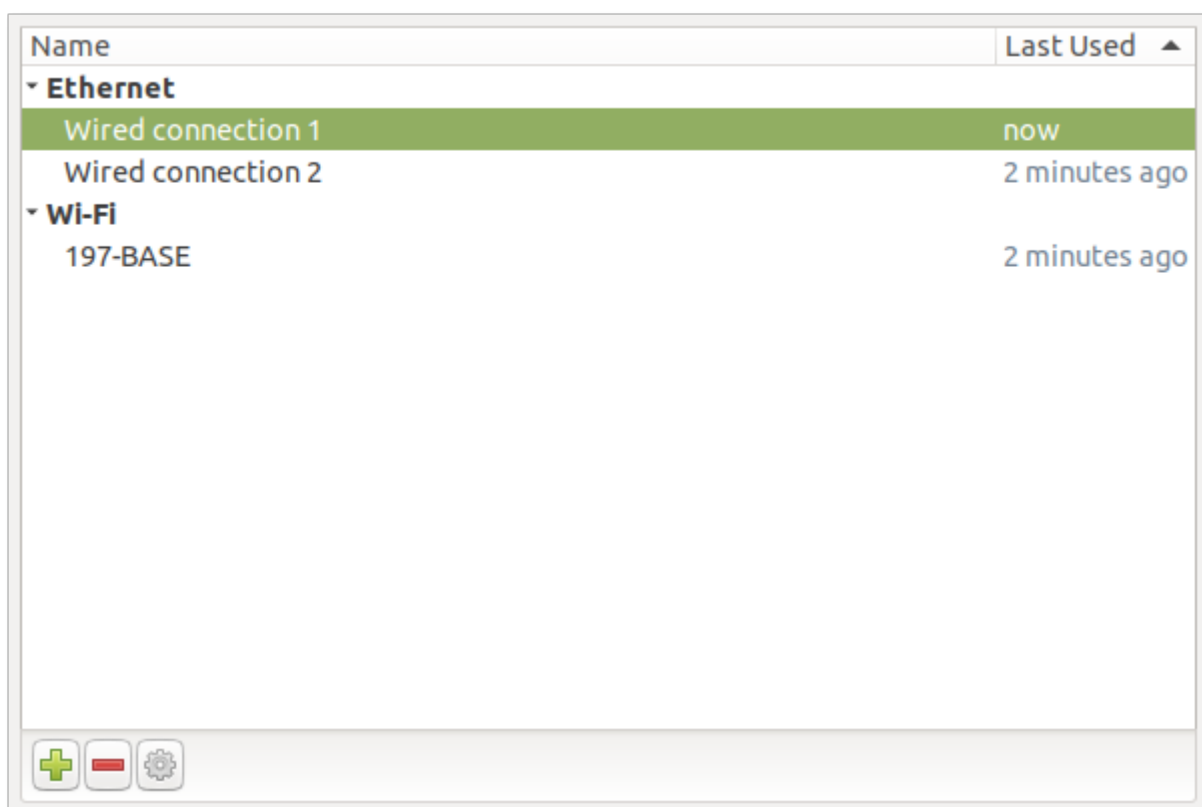


4. Connect the myCNC control board

- Connect the control board to the host computer through a LAN cable
- Go to **Edit Connections**



- Open the wired connection for the control board (wired connection 1 in this case)



- Navigate to IPv4 Settings tab and switch the Method to **Manual**

Connection name:

General Ethernet 802.1X Security DCB Proxy IPv4 Settings IPv6 Settings

Method:
Automatic (DHCP)
Automatic (DHCP) addresses only
Manual
Link-Local Only
Shared to other computers
Disabled

Additional DNS servers:

Additional search domains:

DHCP client ID:

☐ Require IPv4 addressing for this connection to complete

Routes...

Cancel Save

- Click **Add**, then enter the address (192.168.4.50) and the netmask (24), after which click **Save**

192.168.4.50

Connection name: **Wired connection 1**

General Ethernet 802.1X Security DCB Proxy IPv4 Settings IPv6 Settings

Method: **Manual**

Addresses

Address	Netmask	Gateway
192.168.4.50	24	

Add **Delete**

DNS servers:

Search domains:

DHCP client ID:

☐ Require IPv4 addressing for this connection to complete

Routes...

Cancel **✓ Save**

After a short while, the control board should be connected.

Open Terminal window



myCNC controller default IP address is usually **192.168.4.78** (see note on default IP addresses above). Try to ping the board. Type command

```
ping 192.168.4.78
```

```
File Edit View Search Terminal Help
optimum@ivan-ubuntu-mate-2204:~$ ping 192.168.4.78
PING 192.168.4.78 (192.168.4.78) 56(84) bytes of data.
64 bytes from 192.168.4.78: icmp_seq=1 ttl=64 time=0.070 ms
64 bytes from 192.168.4.78: icmp_seq=2 ttl=64 time=0.057 ms
64 bytes from 192.168.4.78: icmp_seq=3 ttl=64 time=0.069 ms
64 bytes from 192.168.4.78: icmp_seq=4 ttl=64 time=0.063 ms
64 bytes from 192.168.4.78: icmp_seq=5 ttl=64 time=0.081 ms
64 bytes from 192.168.4.78: icmp_seq=6 ttl=64 time=0.092 ms
64 bytes from 192.168.4.78: icmp_seq=7 ttl=64 time=0.092 ms
64 bytes from 192.168.4.78: icmp_seq=8 ttl=64 time=0.060 ms
64 bytes from 192.168.4.78: icmp_seq=9 ttl=64 time=0.062 ms
```

and check the result. Check another address in case there is no connection.

Changing the IP address

The following manuals go over the process of switching the IP address of the computer / controller:

- [Change IP Address of myCNC control board](#)
- [Change IP address of Ubuntu MATE computer](#)
- [Change IP Address for TinkerBoard SBC](#)

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

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