

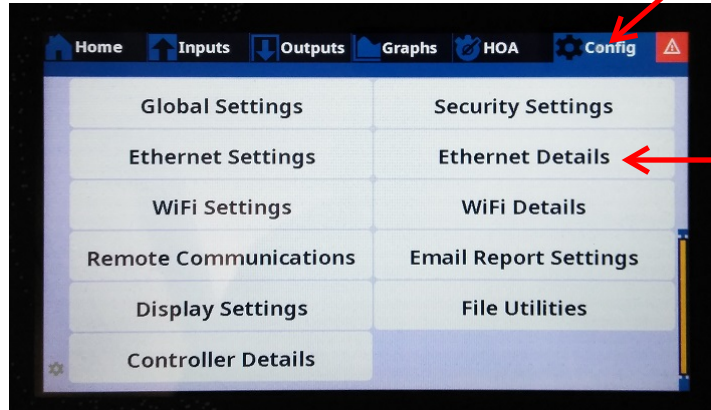


## Connecting to an Intuition-9 via Direct Ethernet, Windows 11

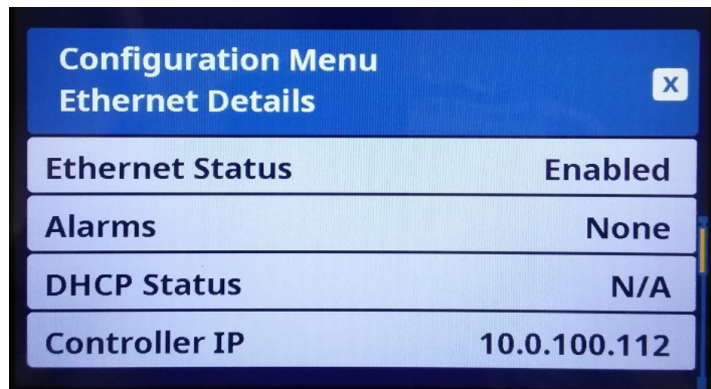
### Obtaining the Controller Ethernet Settings

Before starting the direct ethernet setup on your laptop, you will need to confirm the IP address and subnet mask on the controller. To do this, follow the instructions below:

1. From the Home Screen, press the Config Tab to get to the Configuration menus, and then press "Ethernet Details".



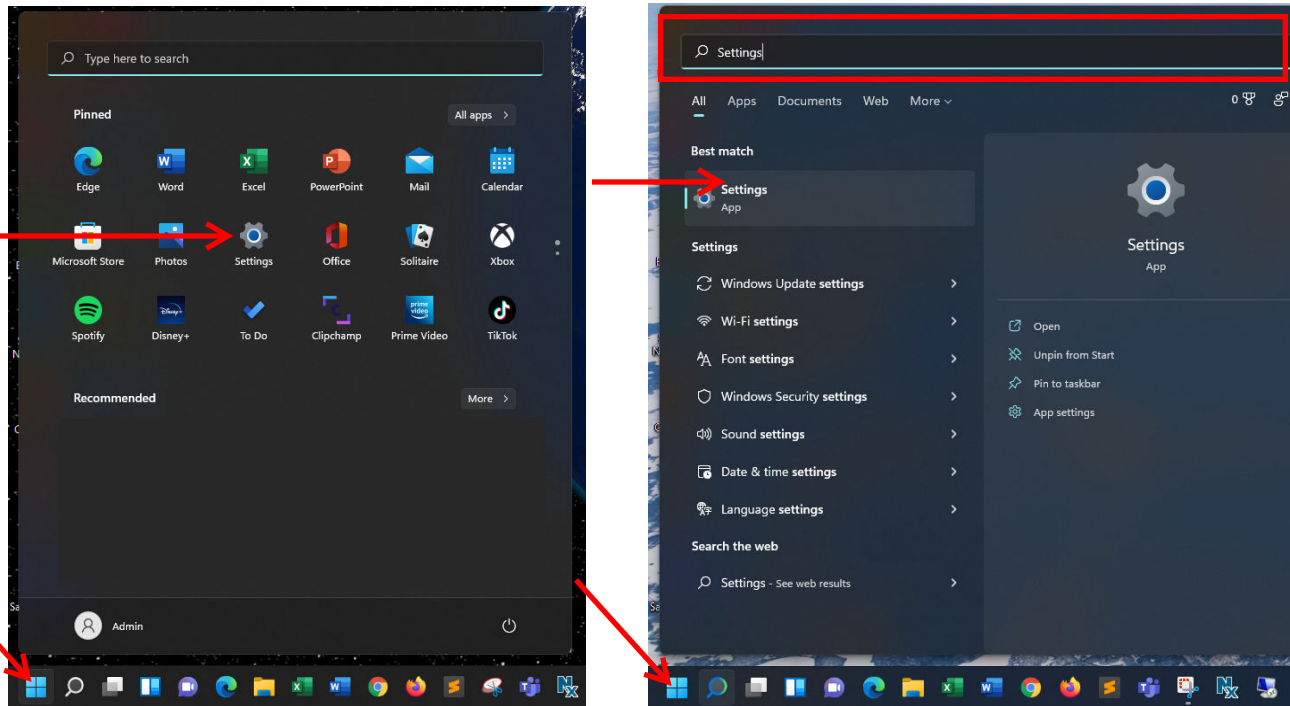
2. In the Ethernet Details sub-menu, swipe up and down through the options until you find the Controller IP and the Netmask. Make a note of these as they will be used in the direct ethernet connection procedure. The default IP address is 10.0.100.101 and the default subnet mask is 255.255.254.0.



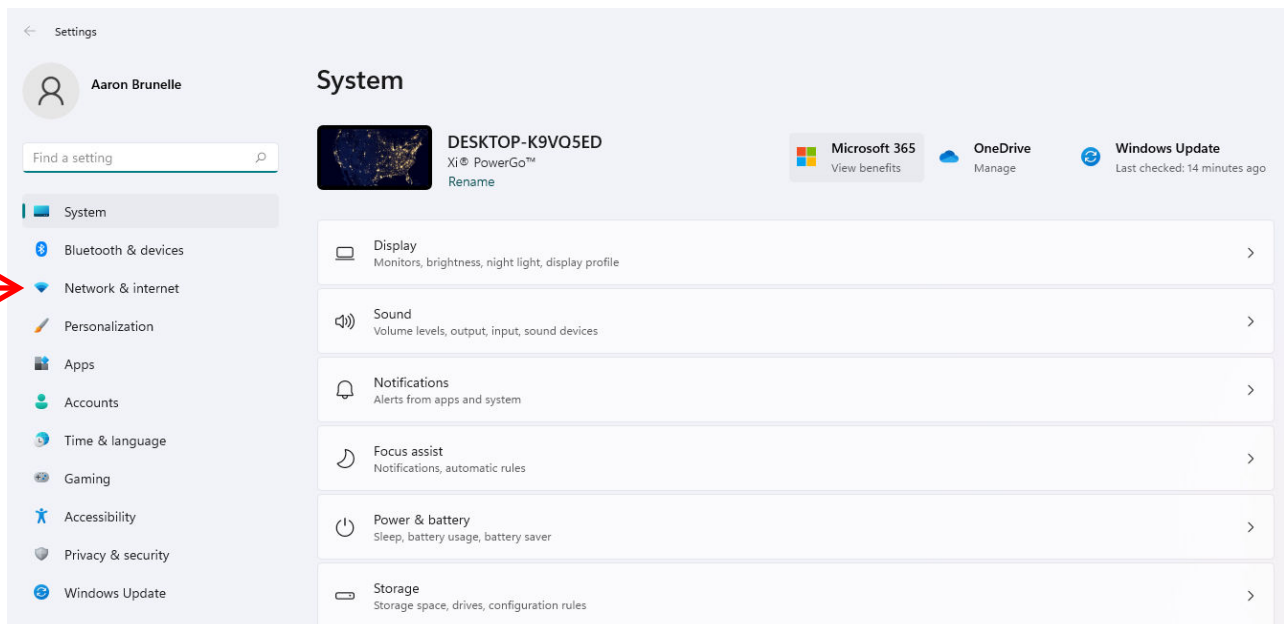


## Setting up the laptop and performing the Direct Ethernet Connection

1. Plug one end of the ethernet cable into the ethernet port on the inside of the door/front panel of the controller, and the other end into the ethernet port on your laptop. Then, on your laptop press the start menu icon and click on the Settings app. If you do not see the Settings app in the list, type "Settings" into the search bar and then click on the Settings app.



2. Click on "Network & Internet"





### 3. Click on "Advanced network settings"

The screenshot shows the Windows Settings application. The left sidebar lists various settings categories, with 'Network & internet' selected. The main area is titled 'Network & internet' and shows settings for 'Wi-Fi (Iwaki-Guest)' and 'Ethernet'. Below these are several network-related options: Wi-Fi (On), Ethernet, VPN, Mobile hotspot (Off), Airplane mode (Off), Proxy, Dial-up, and 'Advanced network settings'. A red arrow points to the 'Advanced network settings' option at the bottom of the list.

### 4. You should see an Ethernet connection in the list of Network adapters named "Unidentified network". Click on that adapter and then click "View additional properties"

The screenshot shows the 'Advanced network settings' page in Windows Settings. Under the 'Network adapters' section, there is a list of adapters: 'Ethernet 2', 'Wi-Fi', 'Ethernet' (Unidentified network | Realtek PCIe GbE Family Controller), and 'Bluetooth Network Connection'. A red arrow points to the 'Ethernet' adapter. Below the adapter list, there is a 'View additional properties' button, which is also pointed to by a red arrow.



5. The IP assignment will likely be automatic (using DHCP). Click on the Edit button for IP assignment.

The screenshot shows the Windows Settings application. On the left is a navigation pane with categories like System, Bluetooth & devices, Network & internet, Personalization, Apps, Accounts, Time & language, Gaming, Accessibility, Privacy & security, and Windows Update. The main area is titled 'Network & internet > Advanced network settings > View additional properties'. Under 'Ethernet properties', there is a table of settings:

IP assignment:	Automatic (DHCP)	Edit
DNS server assignment:	Automatic (DHCP)	Edit
Link speed (Receive/Transmit):	100/100 (Mbps)	Copy
Link-local IPv6 address:		
IPv6 DNS servers:		
Manufacturer:	Realtek	
Description:	Realtek PCIe GbE Family Controller	
Driver version:		
Physical address (MAC):		

A red arrow points to the 'Edit' button next to the IP assignment setting.

6. Click the drop-down and select "Manual". Then switch IPv4 to "On". Then, for the IP address take the IP address on the controller and increment/decrement it by 1 (i.e. if the controller IP address is 10.0.100.112, use 10.0.100.113 or 10.0.100.111). For the Subnet mask match the Subnet mask on the controller. Leave all other settings alone. Then press the Save button to exit. Then click on "Advanced network settings".

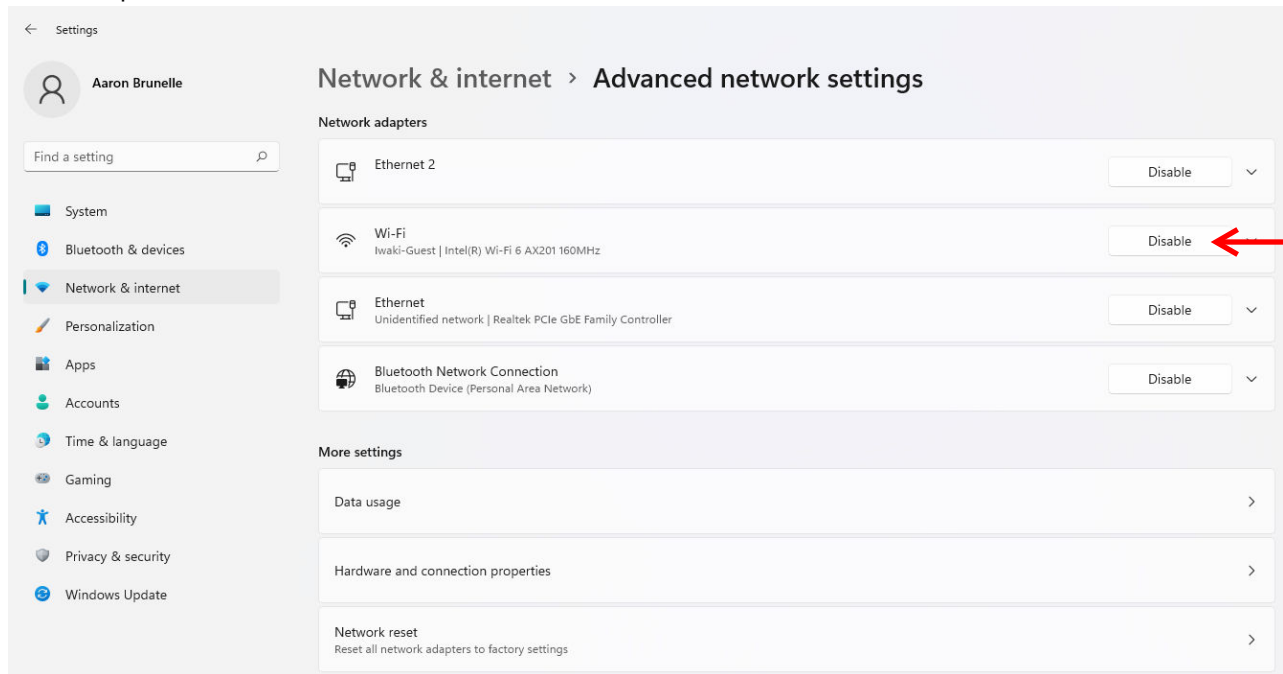
This screenshot shows the same Windows Settings window as above, but with the 'Edit IP settings' dialog box open. The dialog box has the following fields and controls:

- 'Manual' selected in the IP assignment dropdown (red arrow).
- IPv4 toggle switch turned 'On' (red arrow).
- '10.0.100.111' entered in the IP address field (red arrow).
- '255.255.254.0' entered in the Subnet mask field (red arrow).
- 'Save' button at the bottom (red arrow).

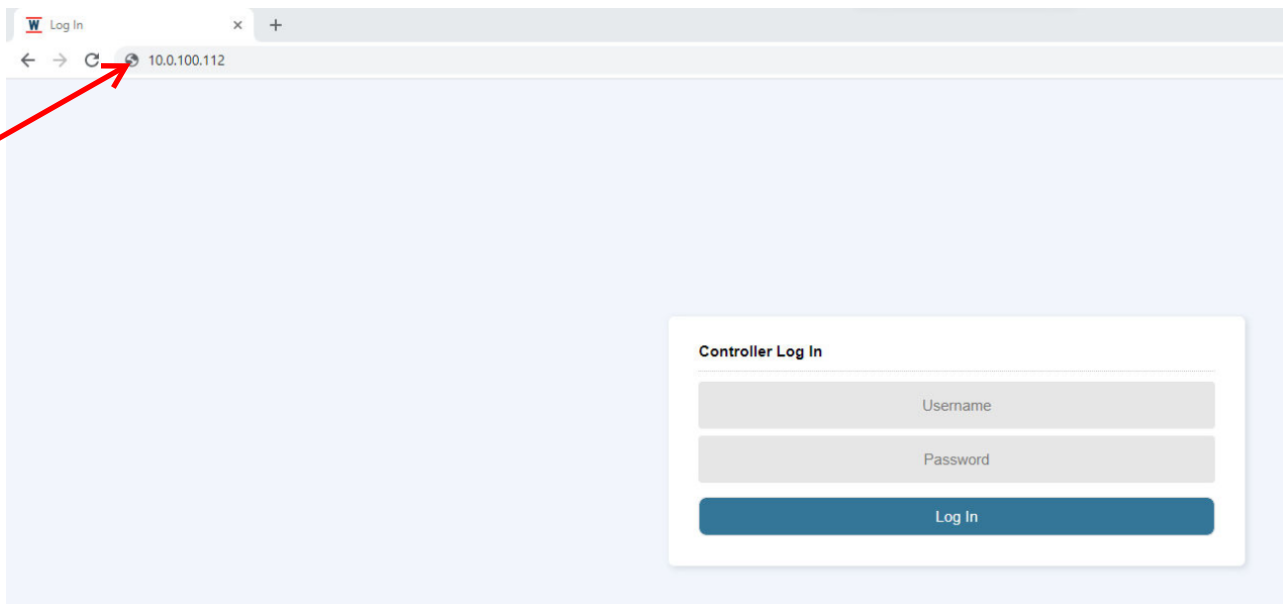
Red arrows also point to the 'Edit' and 'Copy' buttons in the background settings table.



7. For best results, you should temporarily disable your WIFI. To do this, click the Disable button for the Wi-Fi adapter.



8. Open your web browser (Google Chrome shown) and type the controller's IP address into the address bar and press the enter key. The Controller Log In screen appears as shown below. From here you can use your username and password to log into the controller and configure the controller settings.





9. Once you are finished, you can set your network settings back to their previous settings. Go back to "View additional properties" and click the Edit button for the IP assignment.

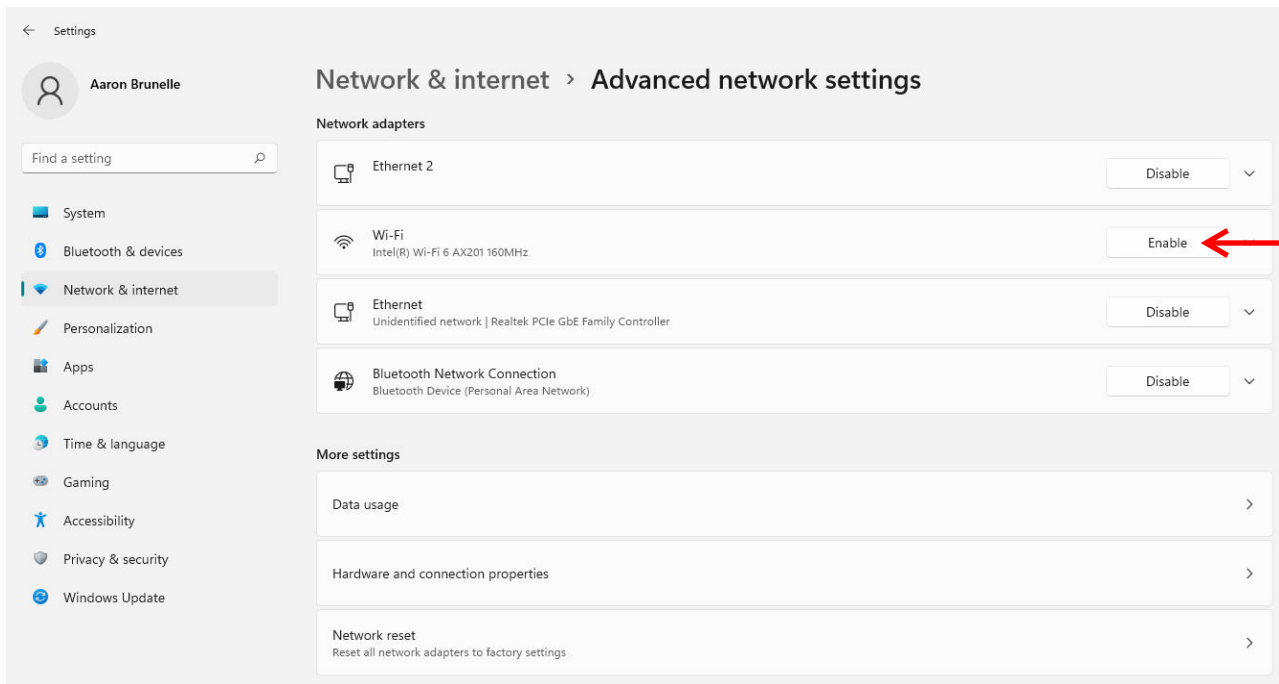
The screenshot shows the Windows Settings application. The left sidebar lists various settings categories, with 'Network & internet' selected. The main pane is titled 'Network & internet > Advanced network settings > View additional properties'. Under the 'Ethernet properties' section, there are three rows of settings: 'IP assignment: Manual', 'DNS server assignment: Automatic (DHCP)', and 'Link speed (Receive/Transmit): 100/100 (Mbps)'. Each row has an 'Edit' button. A red arrow points to the 'Edit' button for the IP assignment row. Below these are fields for 'IPv4 address: 10.0.100.111', 'Manufacturer: Realtek', 'Description: Realtek PCIe GbE Family Controller', 'Driver version:', and 'Physical address (MAC):'.

10. Click the drop-down and switch back to "Automatic (DHCP)". Then press the Save button to exit. Then click on "Advanced network settings".

This screenshot shows the same Windows Settings window as above, but with a dialog box open for editing the IP assignment. The dialog box has a dropdown menu at the top with 'Automatic (DHCP)' selected and 'Manual' as an alternative. Below the dropdown, there are fields for 'IPv4' settings: 'IPv4 address' (10.0.100.111), 'Subnet mask' (255.255.254.0), and 'Gateway'. There are also fields for 'Preferred DNS', 'Preferred DNS encryption' (set to 'Unencrypted only'), and 'Alternate DNS'. At the bottom of the dialog box, there are 'Save' and 'Cancel' buttons. A red arrow points to the 'Automatic (DHCP)' option in the dropdown, and another red arrow points to the 'Save' button.



11. Lastly, click on the Enable button next to the Wi-Fi adapter to re-enable your WIFI.



### Notes

- To do this procedure, you may need to have admin privileges on your laptop.
- It is possible to do the direct connection with the WIFI enabled, however in certain cases this can prevent the laptop from connecting to the controller (the laptop may look on the internet for the controller's IP address rather than look at the ethernet connection). For this reason, you should disable your WIFI for the procedure.
- If your laptop does not have an ethernet port, it is possible to still do this procedure by using a USB to Ethernet adapter such as one shown on the right. You should see an additional adapter appear for the USB adapter. From there, the connection procedure is the same as before.

