RMP-D8 Network Configuration Guide

Background

There are two possible network configurations for connecting an RMP-D8:

Automatic (DHCP): IP address assignment is automatic, as defined by the DHCP server capability that is built into most standard routers.

Note: If you are working within a more complex network configuration, consult your IT administrator before attempting any changes.

Manual: IP address assignment is manual (must be configured by the user/IT administrator).

Note: There are multiple different IPv4 address formats, but the examples given in this document apply regardless of format.

Useful Links:

https://www.audinate.com/learning/training-certification/video-tutorials

https://www.audinate.com/learning/training-certification/dante-certification-program

DHCP (Automatic) Configuration Method:

1) Connect your DHCP Server (router) to a gigabit network switch.
2) Connect your computer to the network switch.
3) While powered off, connect the RMP-D8 to the network switch first, then POWER ON (this guarantees that the RMP-D8 will pick up the correct IP address from your DHCP server)

On your computer, navigate to the network preferences panel and make sure your computer is configured to "Automatic (DHCP)". Write down your computer's IP address for reference.

Typically, most standard routers will assign IP addresses via DHCP in the following format:

IPv4 Address: 192.168.1.X (where "X" is a number between 2 and 254)

Gateway: 192.168.1.1 (this is the IP address of your router)

Subnet Mask: 255.255.255.0 (this "mask" identifies the subnet of your network configuration). Fields with value "255" are part of the subnet, fields with value "0" are not.

The fields in **bold** all correspond to your network **SUBNET**. In the example above, the network subnet is:
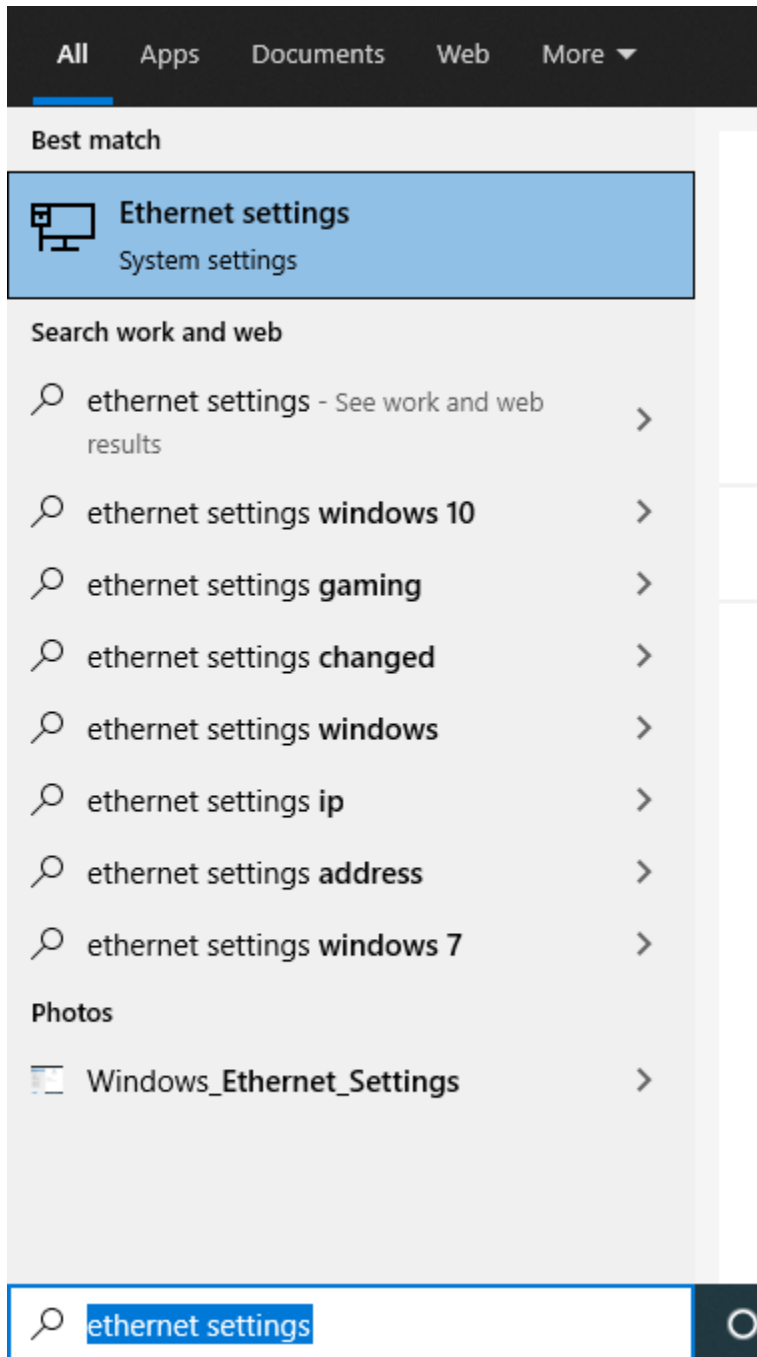
192.168.1

For the RMP-D8 to be seen in Dante Controller, Dante Virtual Soundcard, and the RMP-D8 control app, the subnets for your computer and the RMP-D8(s) **MUST** be identical.

By default, DHCP should automatically configure these fields properly, but it is important to understand what these values mean for troubleshooting purposes as well as setting up Link Local/manual IP addressing.
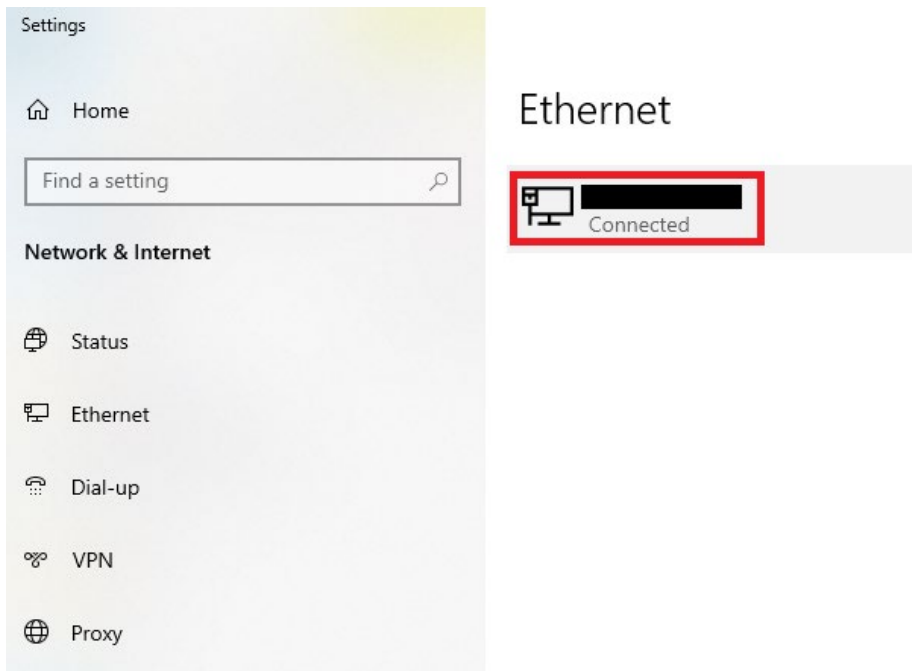
Windows PC - Automatic

To view your current IPv4 address for your computer, follow these steps:

Step 1: Type "Ethernet Settings" in the Windows search bar.

Step 2: Click on your available ethernet network that is connected to the RMP-D8.

Settings

Home

Find a setting

Network & Internet

⊕ Status

🖳 Ethernet

☎ Dial-up

⚬⚬ VPN

⊕ Proxy

Ethernet

🖳 [ ]
   Connected

Step 3: View your current IP address for your computer.

IP settings

IP assignment: Automatic (DHCP)

   Edit
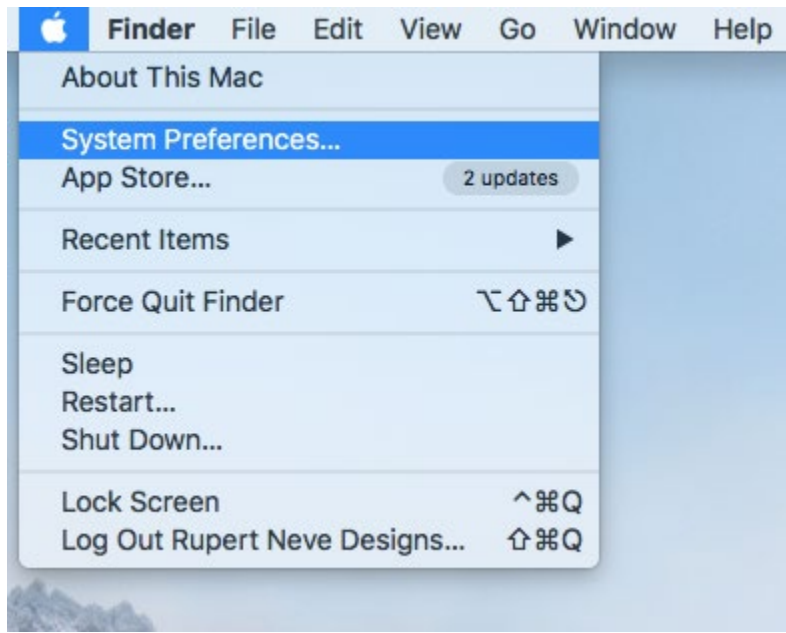
Properties

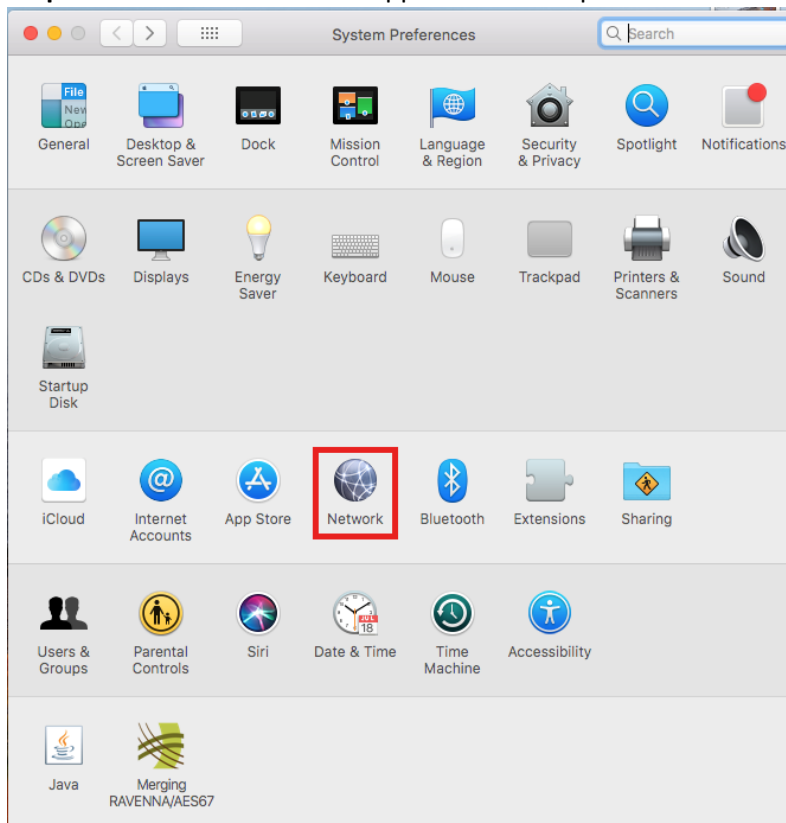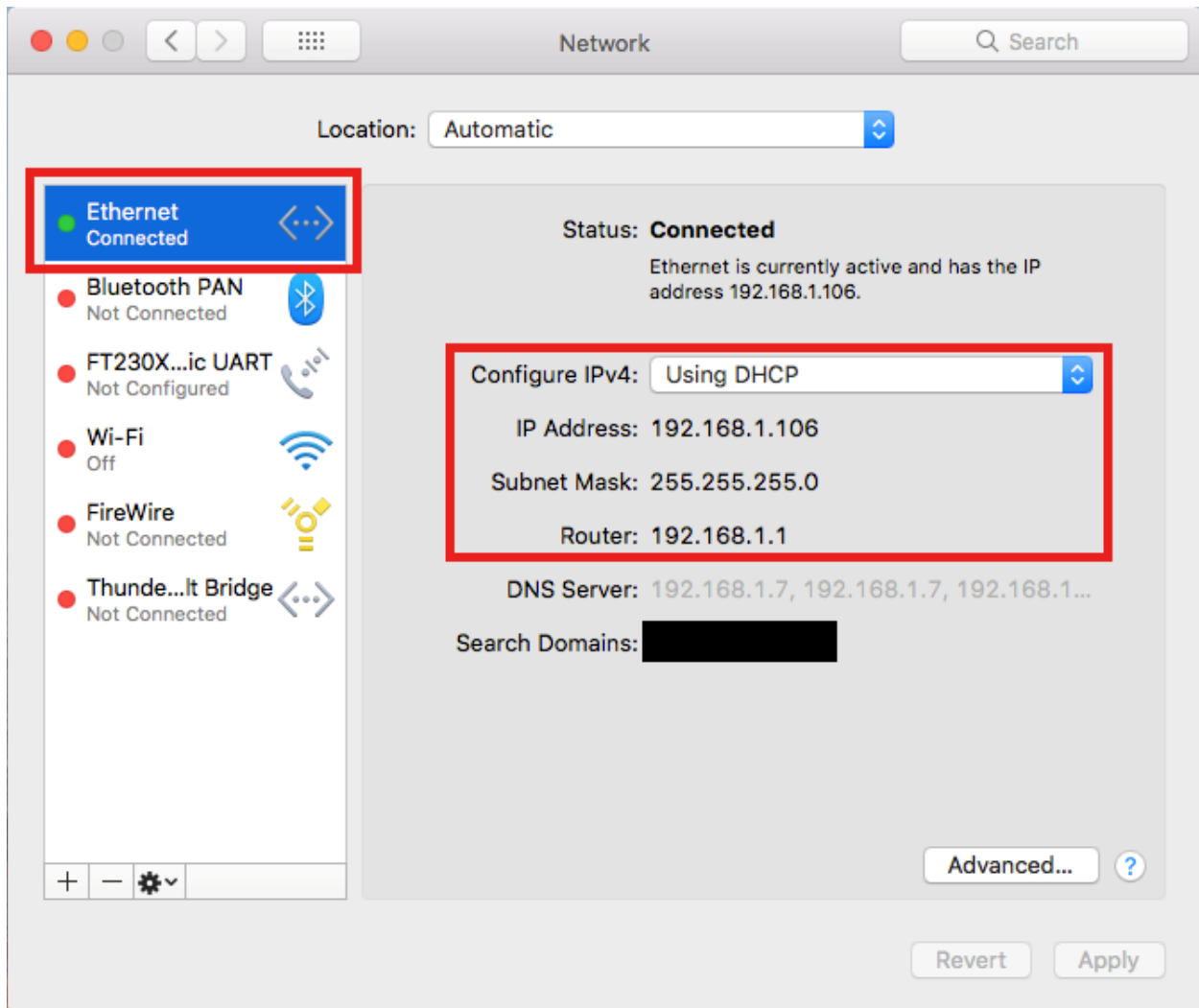|	
Link speed (Receive/Transmit):	1000/1000 (Mbps)
Link-local IPv6 address:	■■■■■■■
IPv4 address:	192.168.1.61
IPv4 DNS servers:	192.168.1.7
	192.168.1.7
	192.168.1.1
Primary DNS suffix:	■■■■■
Manufacturer:	Intel
Description:	Intel(R) Ethernet Connection (2) I219-LM
Driver version:	12.18.9.10
Physical address (MAC):	■■■■■■

   Copy

Mac – Automatic

Step 1: Click on the Apple icon in the top left of the menu bar and locate "System Preferences" in the drop-down menu. Click to open.

Step 2: Locate the "Network" app and click to open.

Step 3: Click on the "Ethernet" tab in the sidebar and view your network info.

Manual Configuration Method:

If there is no DHCP server on the network connected to the RMP-D8, the RMP will auto-assign its own IP address.

The RMP-D8 will use an IP address with the following format:

169.254.X.X where "X" is a number between 2 and 254.

The **SUBNET** will always be: 169.254

Therefore, the **SUBNET MASK** will always be 255.255.0.0

Using this information, you must manually configure your computer's network preferences to operate on the same subnet, utilizing the same subnet mask.

Manual Configuration:

1) Open Dante Controller and navigate to the Device Info Tab.
2) Locate the "Primary Address" field. This is the RMP-D8 IP Address. This can also be found by pressing the RMP-D8 front panel CONFIG button 3 times to see the "Primary" IP address. Write down this IP address for reference.
3) Open your computer's network preferences and set the network configuration to "Manual."
4) Follow the example below:

Manual Configuration Example:

RMP-D8 IP Address (found in Device Info in Dante Controller or RMP-D8 front panel): **169**.**254**.142.151

Computer IP: **169**.**254**.142.2 (169.254 is the SUBNET, but the other two fields do not have to be exact, as long as they are values between 2 and 254.

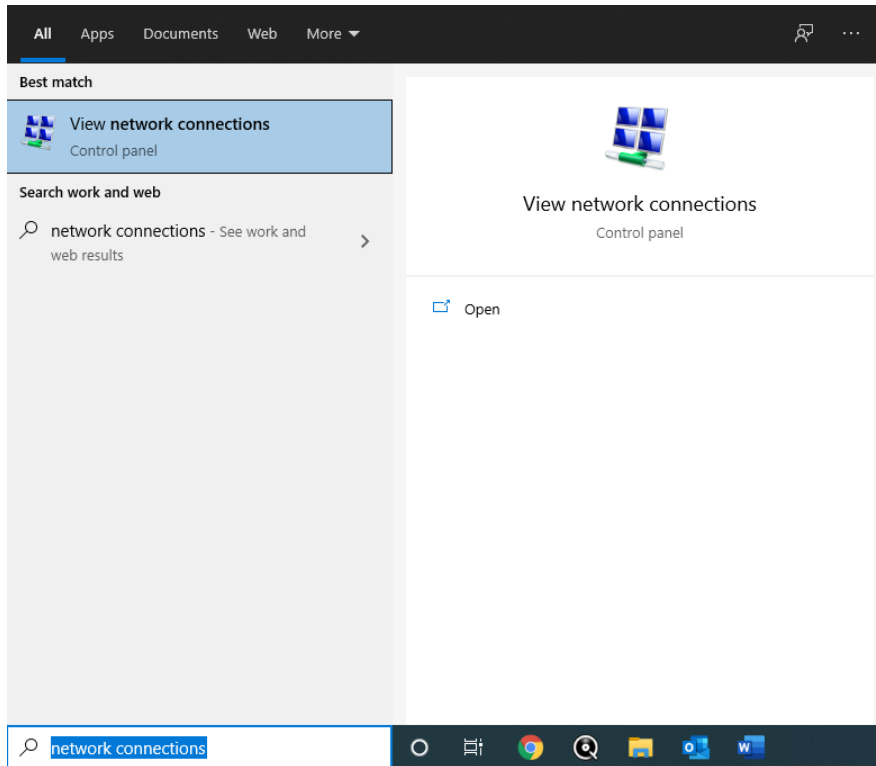Subnet Mask: **255**.**255**.0.0

Gateway: 169.254.1.1

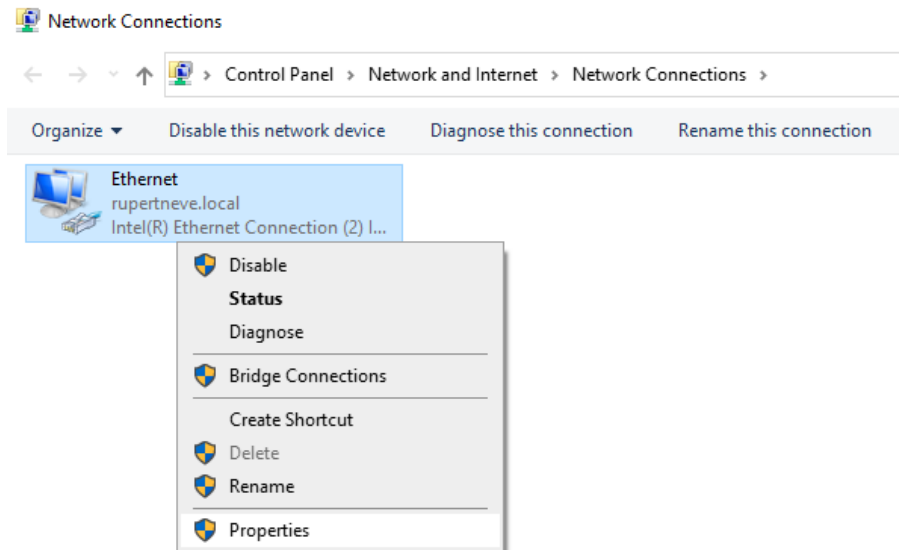DNS Servers (if necessary): 169.254.1.1

In addition to configuring your computer's IPv4 address manually, you must also verify that the "MyIP" field in the lower left-hand corner of the RMP-D8 Control App is set to the same IP address as your computer.
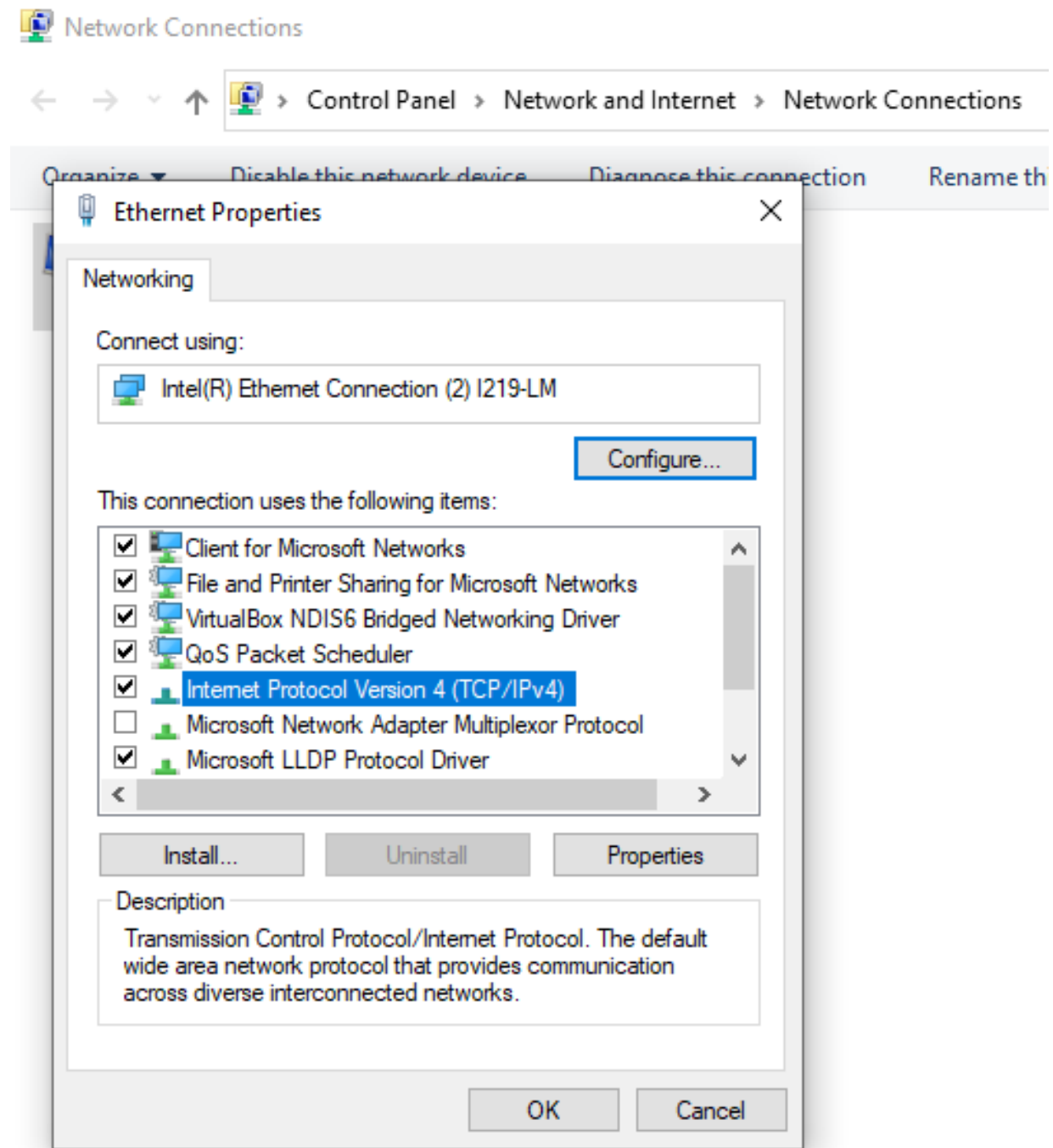
<u>**Windows PC – Manual**</u>

Step 1: Type "network connections" into the Windows search bar. Click on "View Network Connections."
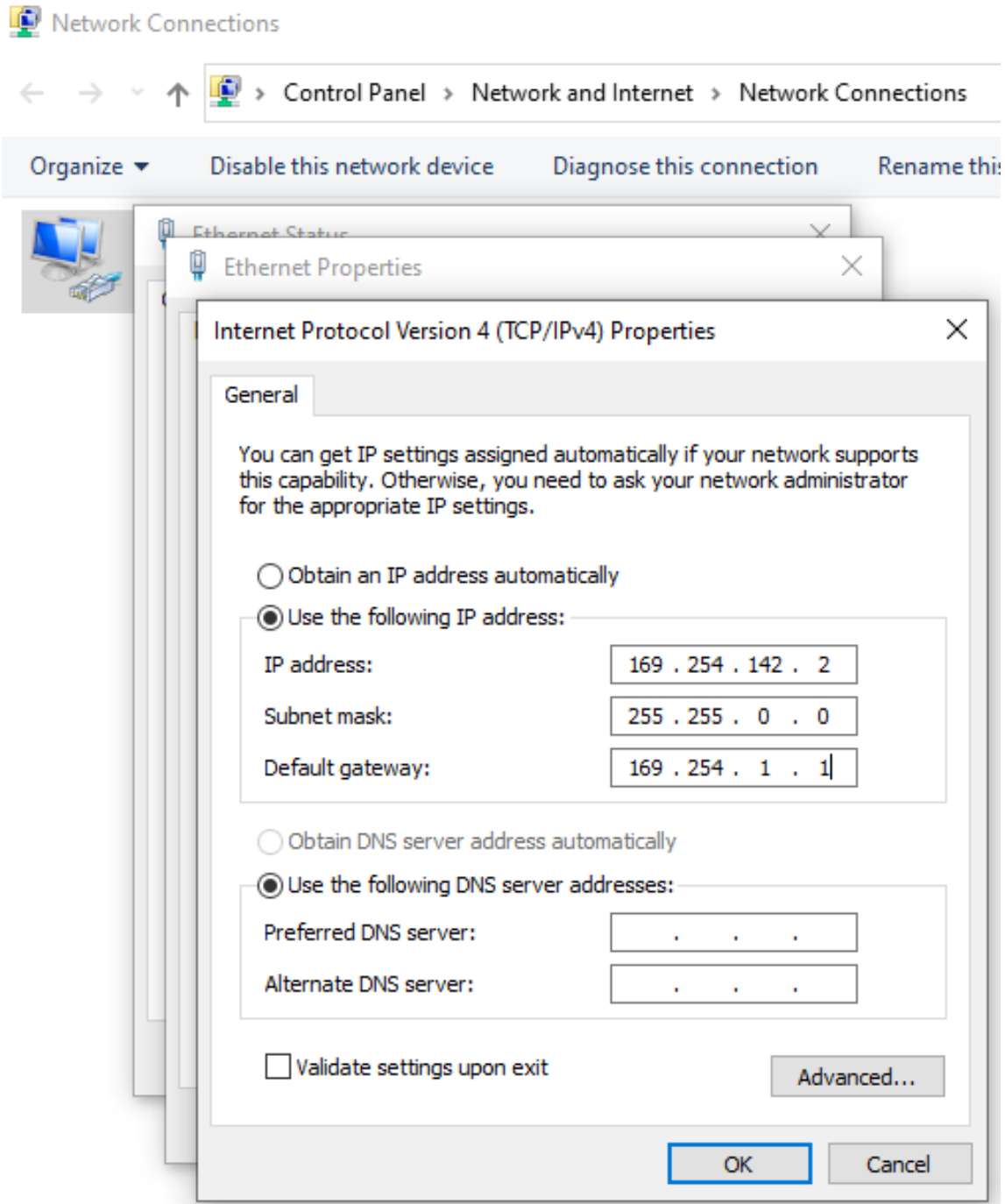

Step 2: Right click on "Ethernet" and select "Properties from the drop-down menu.

Step 3: Double click on "Internet Protocol Version 4 (TCP/IPv4)."

Network Connections

← → ⌄ ↑ 📷 > Control Panel > Network and Internet > Network Connections

Organize ▾   Disable this network device   Diagnose this connection   Rename th

Ethernet Properties   ✕

Networking

Connect using:

🖥 Intel(R) Ethernet Connection (2) I219-LM

Configure...

This connection uses the following items:

☑ 🖥 Client for Microsoft Networks
☑ 🖥 File and Printer Sharing for Microsoft Networks
☑ 🖥 VirtualBox NDIS6 Bridged Networking Driver
☑ 🖥 QoS Packet Scheduler
☑ ⬛ Internet Protocol Version 4 (TCP/IPv4)
☐ ⬛ Microsoft Network Adapter Multiplexor Protocol
☑ ⬛ Microsoft LLDP Protocol Driver

‹   ›

Install...   Uninstall   Properties

Description

Transmission Control Protocol/Internet Protocol. The default wide area network protocol that provides communication across diverse interconnected networks.
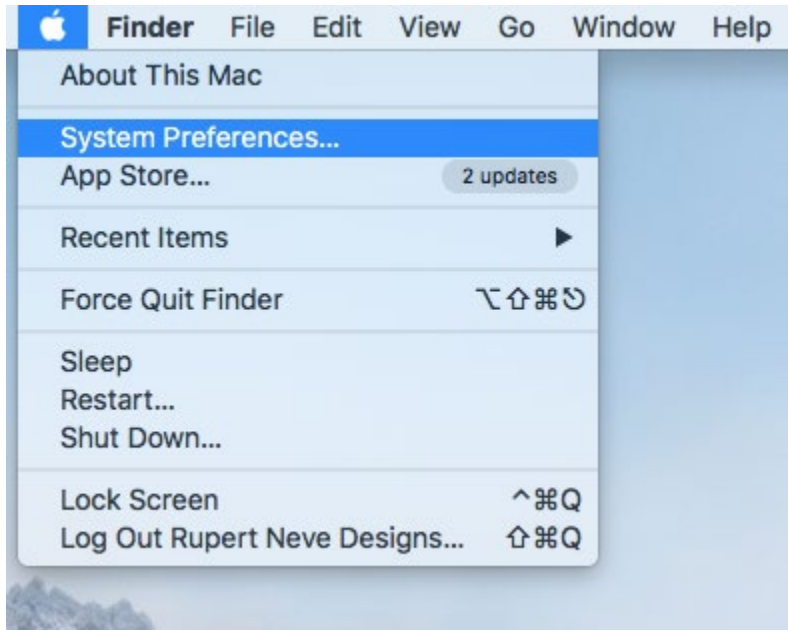
OK   Cancel

Step 4: Enter in the manual address configuration that matches your RMP-D8's subnet and click "OK" to update network settings.
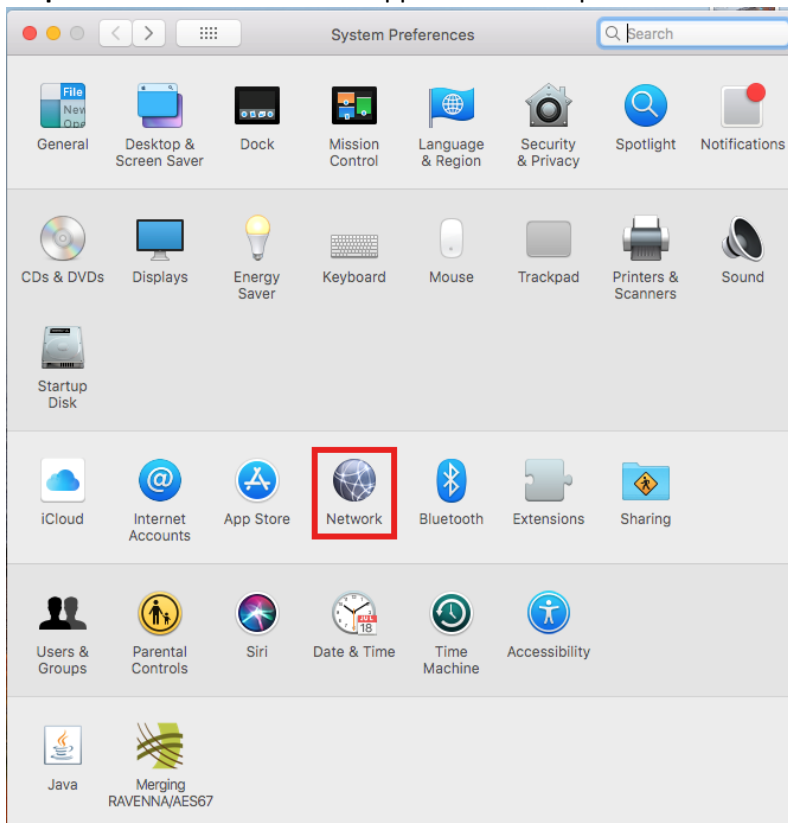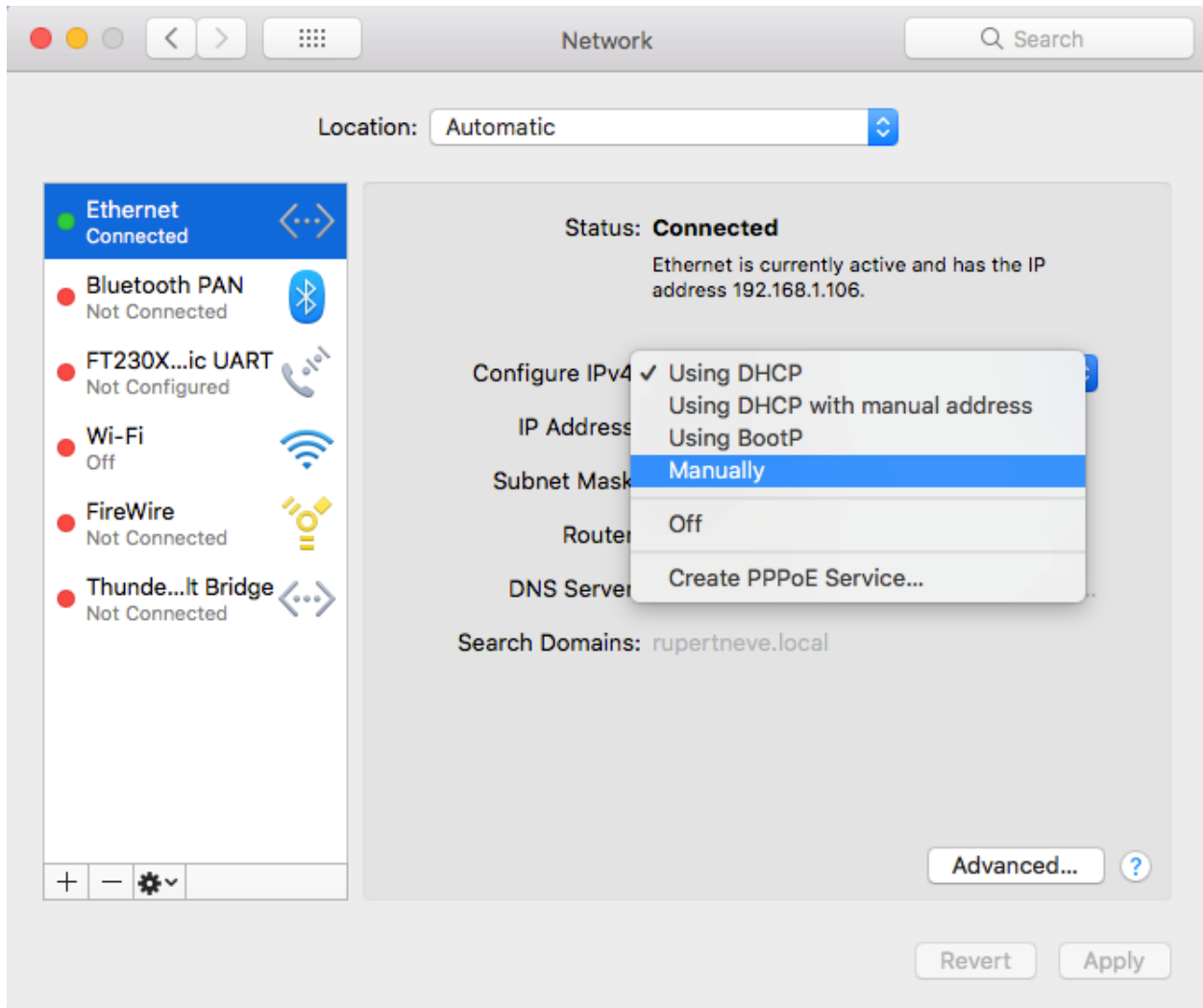
Mac – Manual

Step 1: Click on the Apple icon in the top left of the menu bar and locate "System Preferences" in the drop-down menu. Click to open.
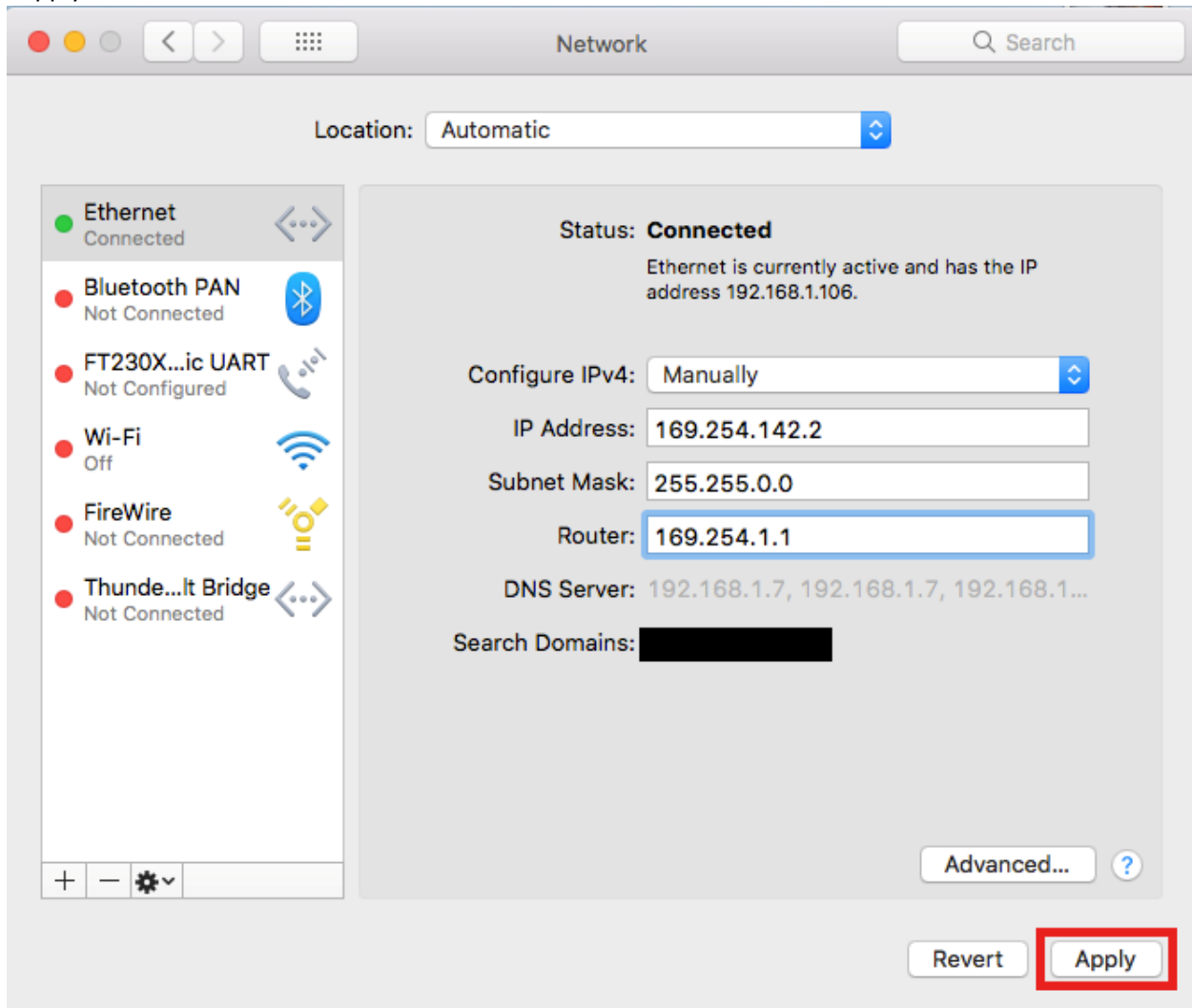

Step 2: Locate the "Network" app and click to open.

Step 3: Click on the "Ethernet" tab in the sidebar and select "Manually" from the "Configure IPv4" drop-down menu.

Step 4: Enter in the manual address configuration that matches your RMP-D8's subnet and click "Apply."

Step 5: The "status" should update to the following: