# **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:

## <mark>192.168.1</mark>

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.

All Apps Documents Web More 🕶	
Best match	
Ethernet settings System settings	
Search work and web	
<pre>     ethernet settings - See work and web     results     </pre>	
ho ethernet settings gaming $ ho$	
ho ethernet settings ip $ ho$	
P ethernet settings windows 7	
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Windows_Ethernet_Settings >	
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**Step 2:** Click on your available ethernet network that is connected to the RMP-D8.

Settings		
යි Home		Ethernet
Find a setting	٩	
Network & Internet		
🖨 Status		
문 Ethernet		
ි Dial-up		
% VPN		
Proxy		

**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):	
Сору	

#### 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.



	Network	Q Search	
Location: Automatic			
Ethernet Connected     Connected     Not Connected	Status:	<b>Connected</b> Ethernet is currently active and has the IP address 192.168.1.106.	
<ul> <li>FT230Xic UART Not Configured</li> <li>Wi-Fi Off</li> <li>FireWire Not Connected</li> <li>ThundeIt Bridge Not Connected</li> </ul>	Configure IPv4: IP Address: Subnet Mask: Router: DNS Server:	Using DHCP 192.168.1.106 255.255.255.0 192.168.1.1 192.168.1.7, 192.168.1	
+ - *~	Search Domains:	Advanced ?	
		Revert Apply	

**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.

### Windows PC – Manual

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

All Apps Documents Web More 🕶	₽ …
Best match	
View network connections Control panel	
Search work and web	View network connections
P network connections - See work and web results	Control panel
	다 Open
P network connections	O 🕂 💛 🔍 🗖 💁 🚾

**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)."

→ ↑ ▲ > Control Panel > Network and Int	ernet	> Network	Connection
Proanize  Disable this network device Diagnose	e this c	X	Rename
Networking			
Connect using:			
Intel(R) Ethemet Connection (2) I219-LM			
Configu	ire	ī l	
This connection uses the following items:		· .	
<ul> <li>Client for Microsoft Networks</li> <li>File and Printer Sharing for Microsoft Networks</li> <li>VirtualBox NDIS6 Bridged Networking Driver</li> </ul>	^		
QoS Packet Scheduler			
Internet Protocol Version 4 (TCP/IPV4)     Internet Protocol Version 4 (TCP/IPV4)     Internet Protocol Version 4 (TCP/IPV4)			
Microsoft LLDP Protocol Driver	<u>ب</u> ۲		
Install Uninstall Properti	es		
Description			
Transmission Control Protocol/Internet Protocol. The defa wide area network protocol that provides communication across diverse interconnected networks.	ault		
OK	Canaal		

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

👰 Network Cor	nnections		
$\leftarrow \rightarrow \cdot \uparrow$	🗴 😰 > Control Panel > Netw	ork and Internet > Network C	onnections
Organize 🔻	Disable this network device	Diagnose this connection	Rename this
	Ethernet Status Ethernet Properties	× ,	<
	Internet Protocol Version 4 (TC	P/IPv4) Properties	×
	General		
	You can get IP settings assigne this capability. Otherwise, you for the appropriate IP settings	ed automatically if your network so need to ask your network adminis	upports strator
	Obtain an IP address aut	omatically	
	• Use the following IP addre	ess:	
	IP address:	169.254.142.2	
	Subnet mask:	255.255.0.0	
	Default gateway:	169.254.1.1	
	Obtain DNS server addres	ss automatically	
	• Use the following DNS ser	ver addresses:	
	Preferred DNS server:		
	Alternate DNS server:	· · ·	
	Validate settings upon ex	xit Adva	nced
		ОК	Cancel

#### 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" dropdown menu.

$\bullet \bullet \circ \checkmark $	Network	Q, Search
Loo	ation: Automatic	
<ul> <li>Ethernet Connected</li> <li>Bluetooth PAN Not Connected</li> <li>FT230Xic UART Not Configured</li> <li>Wi-Fi Off</li> <li>Wi-Fi Off</li> <li>FireWire Not Connected</li> <li>FineWire Not Connected</li> <li>ThundeIt Bridge Not Connected</li> </ul>	Status: Connected Ethernet is currently active address 192.168.1.106. Configure IPv4 ✓ Using DHCP Using DHCP with mar Using BootP Subnet Mask Manually Router DNS Server Create PPPoE Service Search Domains: rupertneve.local	and has the IP nual address
+ - *		Advanced ? Revert Apply

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

$\bullet \bullet \circ \checkmark $	Network	(	Q Search
Loc	cation: Automatic	<b>\$</b>	
Ethernet Connected     Converted     Bluetooth PAN	Status:	Connected Ethernet is currently active address 192.168.1.106.	and has the IP
• FT230Xic UART	Configure IPv4:	Manually	<b>©</b>
Wi-Fi Off      FireWire Not Connected	Subnet Mask: Router:	255.255.0.0 169.254.1.1	
ThundeIt Bridge     Not Connected	DNS Server: Search Domains:	192.168.1.7, 192.168.	1.7, 192.168.1
+   -   & -			Advanced ?
			Revert Apply

••• • • •	Network	:	Q Search
Lo	cation: Automatic	<u></u>	
Ethernet Self-Assigned IP     Self-Assigned IP     Not Connected	Status:	<b>Connected</b> Ethernet has a self-assigne will not be able to connect t	d IP address and to the Internet.
<ul> <li>FT230Xic UART Not Configured</li> <li>Wi-Fi Off</li> <li>FireWire Not Connected</li> <li>ThundeIt Bridge Not Connected</li> </ul>	Configure IPv4: IP Address: Subnet Mask: Router: DNS Server: Search Domains:	Manually 169.254.142.2 255.255.0.0 169.254.1.1	
+ - *			Advanced ?
			Revert Apply

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