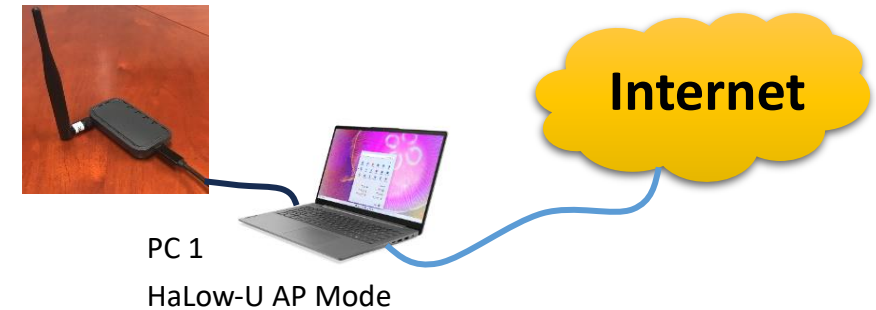


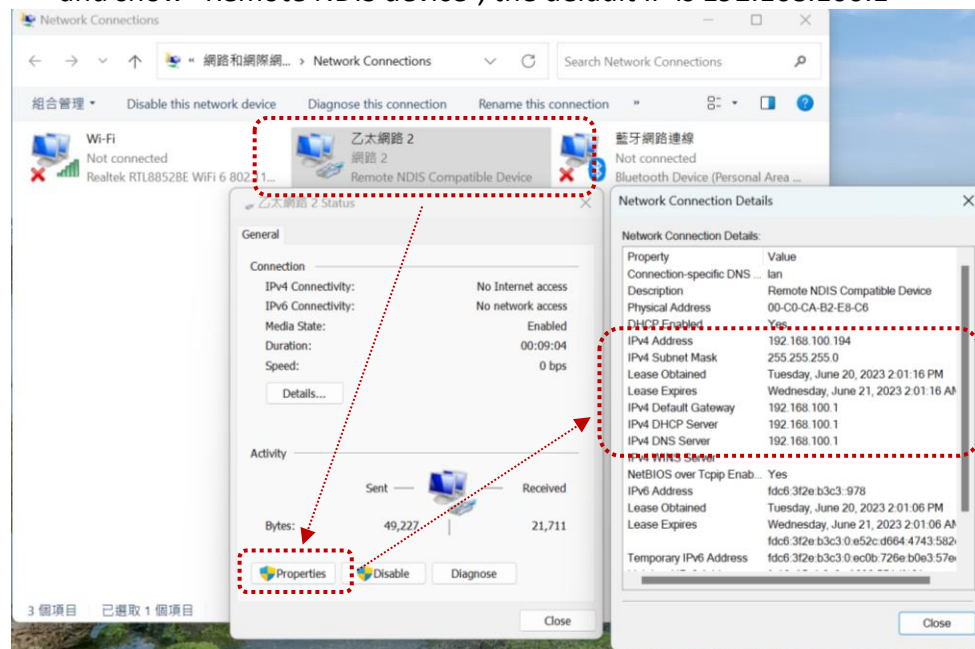
# HaLow-U Bridge Setup Guide

Purpose: HaLow-U connect to Windows PC 1 and Windows PC 1 shared internet connection to another Windows PC 2 through HaLow-U



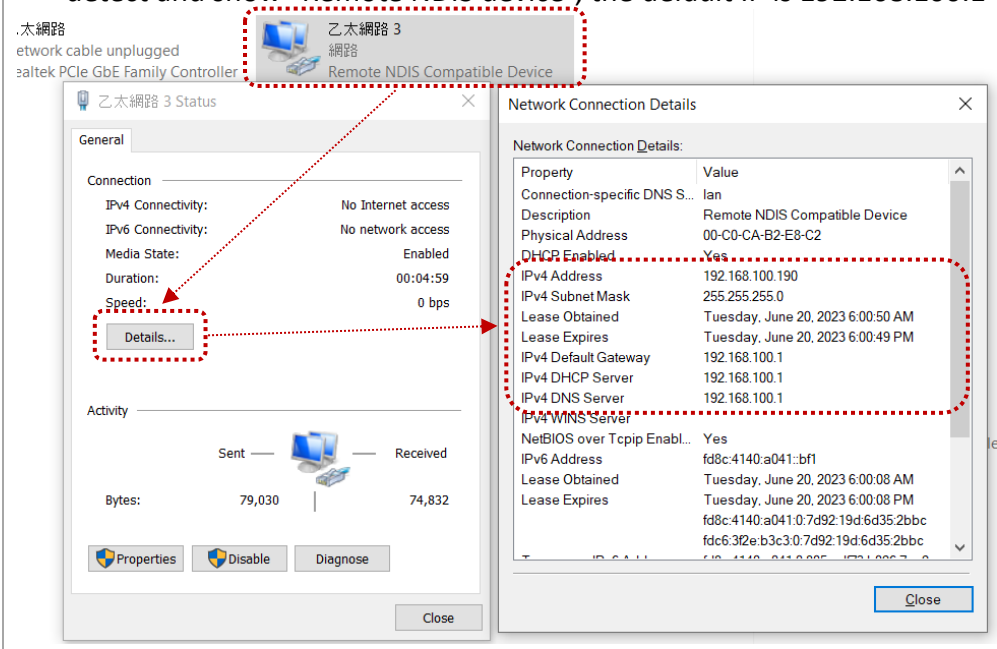
## HaLow-U Client Setting

1. Connect HaLow-U to Windows PC and wait until Network Manager detect and show "Remote NDIS device", the default IP is 192.168.100.1



## HaLow-U AP Setting

1. Connect HaLow-U to Windows PC and wait until Network Manager detect and show "Remote NDIS device", the default IP is 192.168.100.1



2. Open Browser and type 192.168.100.1 to login page  
Username: admin  
Password: admin



login.Login

login.Authorization Required

login.Please input username

login.Please input password

login.Login

login.Login

login.Authorization Required

admin

\*\*\*\*\*

login.Login

2. Open Browser and type 192.168.100.1 to login page  
Username: admin  
Password: admin



login.Login

login.Authorization Required

login.Please input username

login.Please input password

login.Login

login.Login

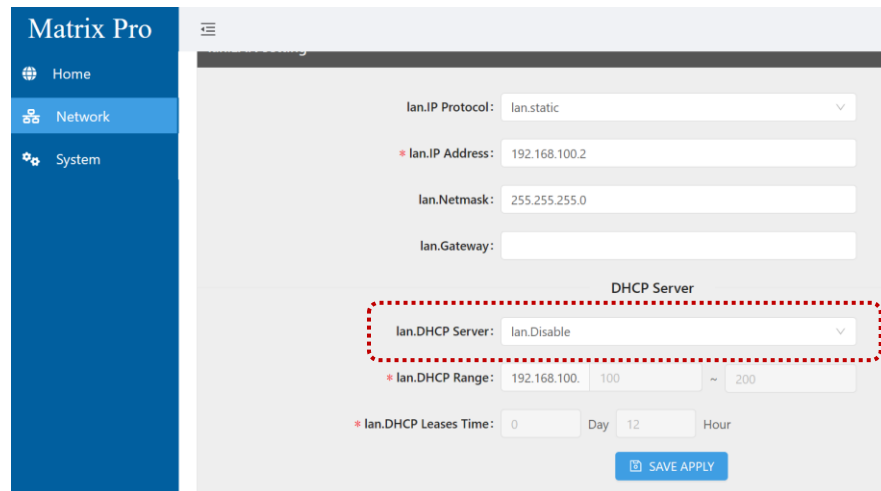
login.Authorization Required

admin

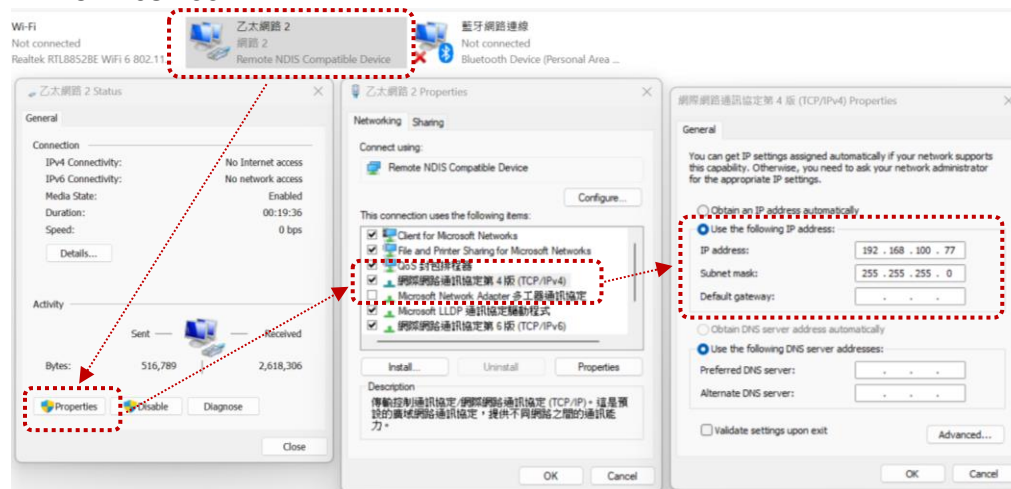
\*\*\*\*\*

login.Login

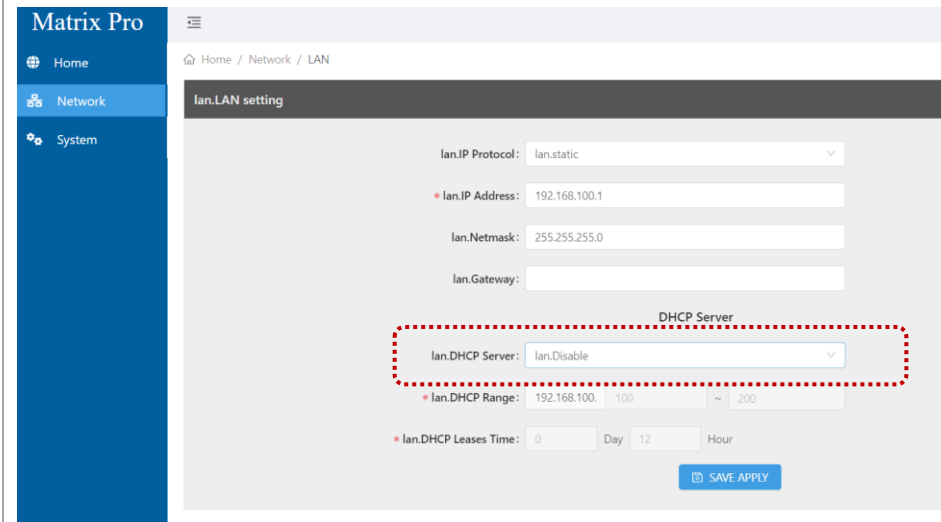
3. In the Network section change the LAN IP address to 192.168.100.2 and disable the DHCP Server



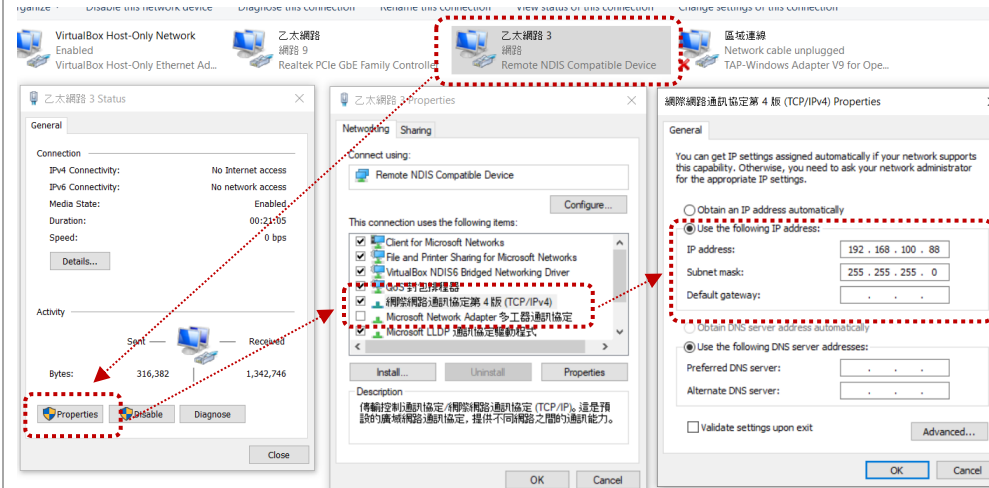
4. Go back to the Windows Network Connection page and right-click “Remote NDS Compatible Device” to setup the fixed IP address such as 192.168.100.77



3. In the Network section disable the DHCP Server



4. Go back to the Windows Network Connection page and right-click “Remote NDS Compatible Device” to setup the fixed IP address such as 192.168.100.88



5. Go back to the browser and enter the 192.168.100.2 to access the setting page and scan the AP to select to connect

The screenshot shows the Matrix Pro web interface. The '802.11AH Status' table lists the following information:

Working Mode	Network Name	MAC
Master	AHXC7292U-b2e8c7	00:C0:CA:B2:E8:C7
Channel	Bandwidth	Frequency
36	1 M	908.5 MHz
Security	Country Code	TX Power
No Encryption		

The 'EDIT' button is highlighted with a red dashed box. A modal window titled '802.11AH Settings' is open, showing the following fields:

- AH Mode: Client Mode (dropdown)
- Network Name: AHXC7292U-b2e8c7 (with a search icon)
- Security: No Encryption (dropdown)

The 'OK' button is highlighted with a red dashed box. Below the modal, the '802.11AH APs' table is shown, listing available APs for connection:

Network Name	Channel / Bandwidth	Signal Quality	Operate
MorseMicro_0CBF7483DA22	Ch: 922 Mhz BW: 4 M	-49 dBm 100 %	Select
AHXC7292U-b2e8c3_00C0CA82E8C3	Ch: 922 Mhz BW: 4 M	-250 dBm 100 %	Select

5. Go back to the browser and enter the 192.168.100.1 to access the setting page.  
To setup the AP mode, go to Edit → change AH mode to AP mode and choose the channel you want to use and give the Security password, then hit “OK” to save config.

The screenshot shows the Matrix Pro web interface with the '802.11AH Settings' modal open. The modal contains the following fields:

- AH Mode: AP Mode (dropdown)
- Channel: 165 (dropdown)
- Security: WPA PSK3 (dropdown)
- Network Name: AHXC7292U-b2e8c3
- Password: (text field)

The 'OK' button is highlighted with a red dashed box. A red dashed arrow points from the 'EDIT' button in the previous screenshot to this modal.

**NOTE:** Now go to HaLow-U Client Setting and follow steps to step 6 to connect to HaLow-U AP

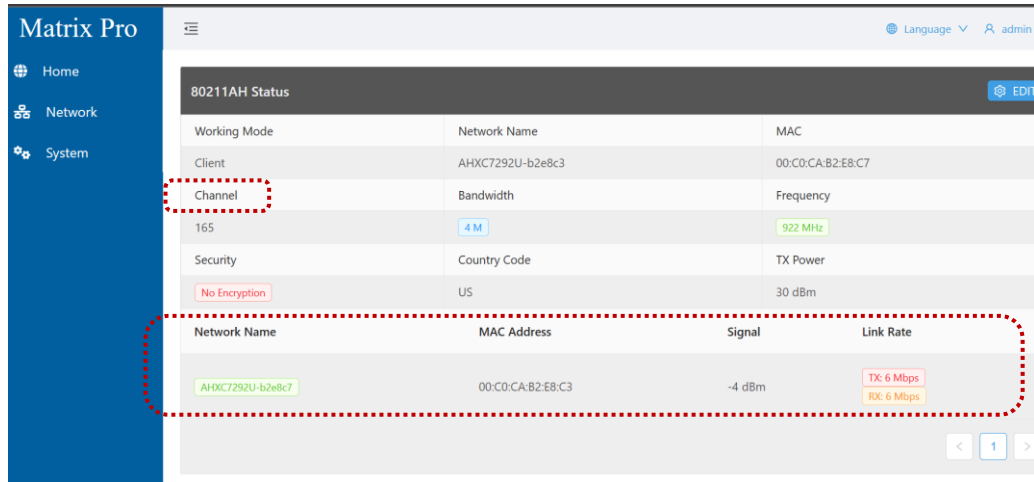
6. When HaLow-U client connected will show in Network Status page

The screenshot shows the Matrix Pro web interface with the 'Network Status' page. The '802.11AH Status' table is shown, and the 'Master' row is highlighted with a red dashed box. Below the table, the 'Network Name' and 'MAC Address' are listed, and the 'Signal' and 'Link Rate' are shown. The 'Signal' and 'Link Rate' are highlighted with a red dashed box.

Network Name	MAC Address	Signal	Link Rate
AHXC7292U-b2e8c3	00:C0:CA:B2:E8:C7	-33 dBm	TX: 6 Mbps RX: 6 Mbps

**NOTE:** After HaLow-U client successful connect to HaLow-U AP, then do below step 7 and 8.

6. Wait until connected to the HaLow-U AP  
When connected it will show in connection status.



Matrix Pro

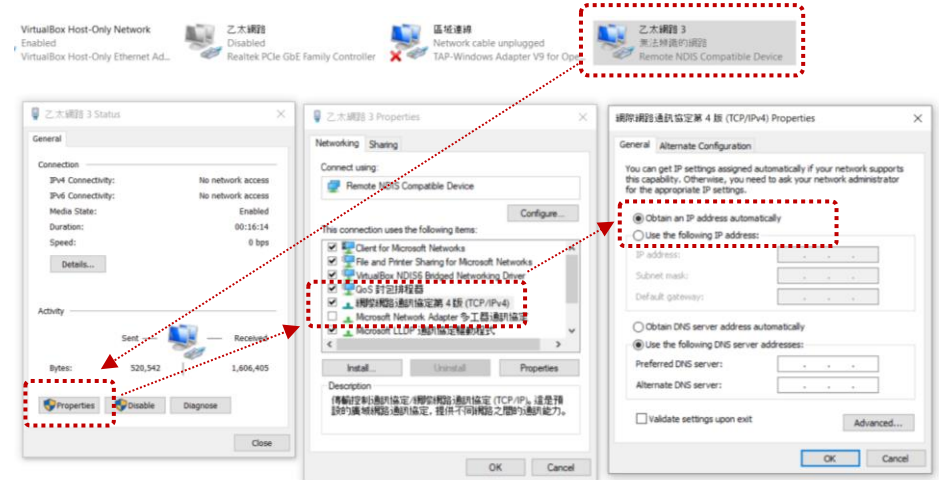
802.11AH Status

Working Mode	Network Name	MAC
Client	AHXC7292U-b2e8c3	00:C0:CA:B2:E8:C7
Channel	Bandwidth	Frequency
165	4 M	922 MHz
Security	Country Code	TX Power
No Encryption	US	30 dBm

Network Name	MAC Address	Signal	Link Rate
AHXC7292U-b2e8c3	00:C0:CA:B2:E8:C3	-4 dBm	TX: 6 Mbps RX: 6 Mbps

**NOTE:** After HaLow-U client successful connect to HaLow-U AP, then go to HaLow-U AP setting step 6

7. Go back to Windows Network Connection page and change to “Obtain an IP address automatically.”



VirtualBox Host-Only Network  
Enabled  
VirtualBox Host-Only Ethernet Ad...

乙太網路  
Disabled  
Realtek PCIe GbE Family Controller

區域網路  
Network cable unplugged  
TAP-Windows Adapter V9 for O...

乙太網路 3  
無法辨識的網路  
Remote NDIS Compatible Device

乙太網路 3 Status

General

Connection

IPv4 Connectivity: No network access  
IPv6 Connectivity: No network access  
Media State: Enabled  
Duration: 00:16:14  
Speed: 0 bps

Details...

Activity

Bytes: Sent 520,542 Received 1,806,405

乙太網路 3 Properties

Networking | Sharing

Connect using:  
Remote NDIS Compatible Device

Configure...

This connection uses the following items:

- ☒ Client for Microsoft Networks
- ☒ File and Printer Sharing for Microsoft Networks
- ☒ VirtualBox NDIS Bridged Networking Driver
- ☒ 網路通訊協定第 4 版 (TCP/IPv4)
- ☐ Microsoft Network Adapter 多工通訊協定
- ☐ Microsoft TCP/IP 通訊協定

Install | Uninstall | Properties

Description  
(傳輸控制通訊協定/網路通訊協定 (TCP/IP) 這是種  
網路的廣域網路通訊協定, 提供不同網路之間的通訊能力。)

General | Alternate Configuration

General

You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.

☒ Obtain an IP address automatically

☐ Use the following IP address:

IP address: . . . . .

Subnet mask: . . . . .

Default gateway: . . . . .

☐ Obtain DNS server address automatically

☒ Use the following DNS server addresses:

Preferred DNS server: . . . . .

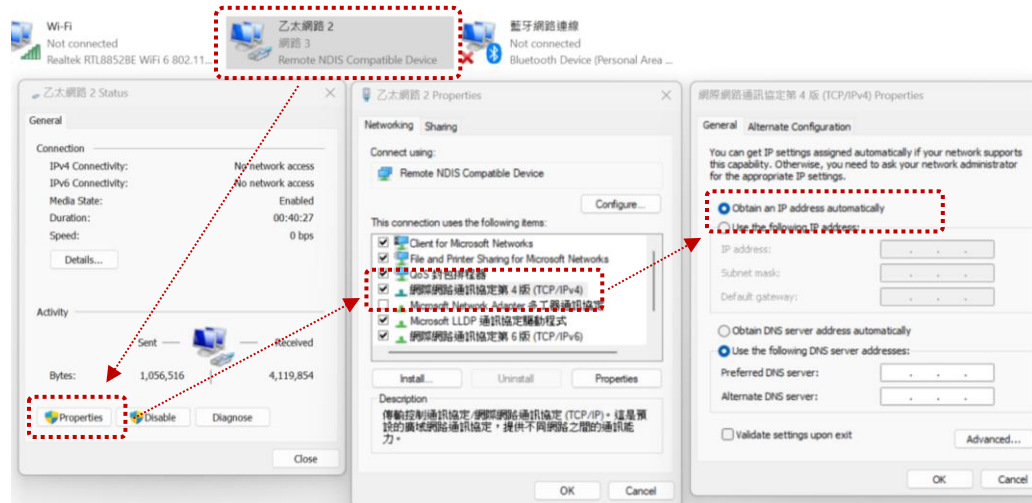
Alternate DNS server: . . . . .

☐ Validate settings upon exit

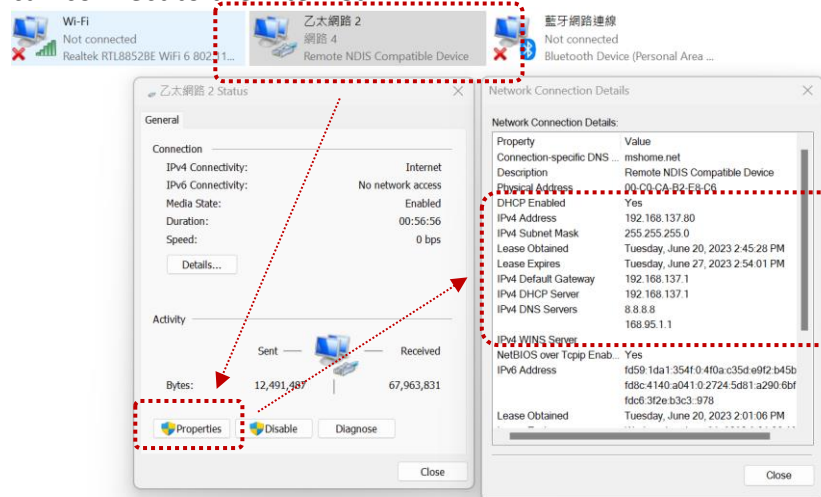
Advanced...

OK | Cancel

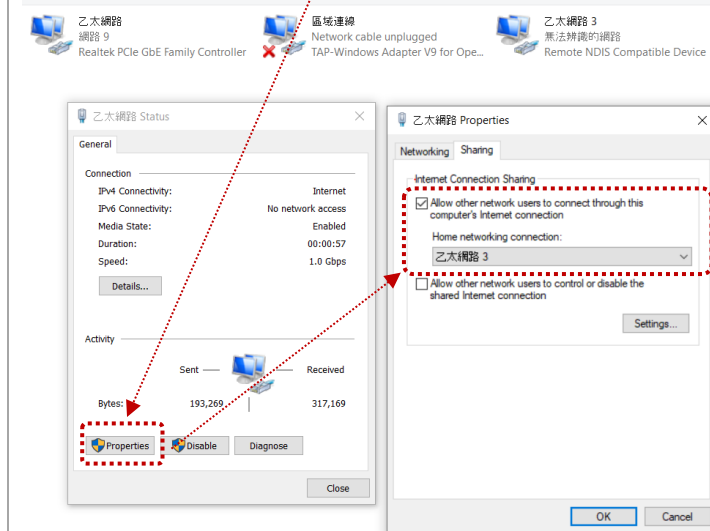
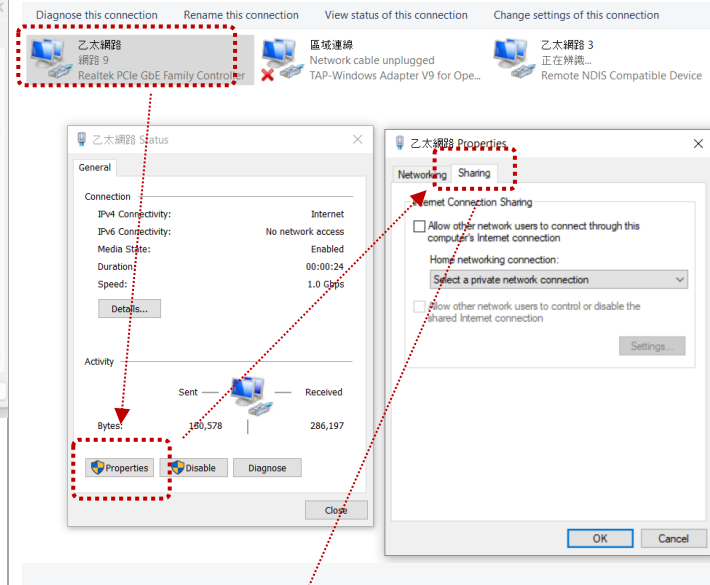
7. Go back to Windows Network Connection page and change to “Obtain an IP address automatically.”



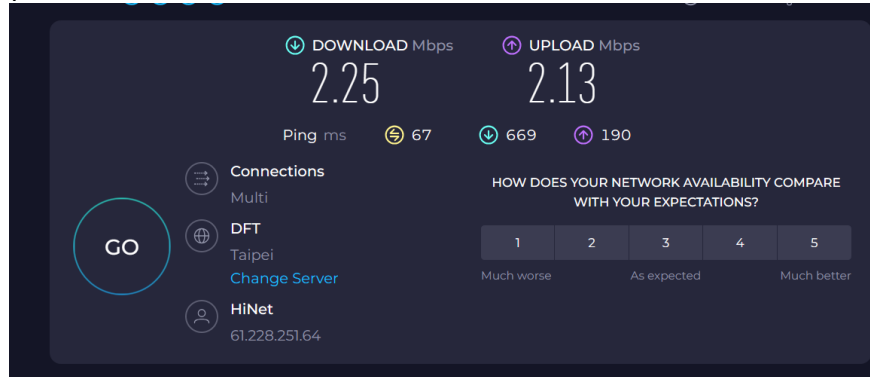
The HaLow-U client Remote NDIS Compatible Device will get IP range 192.168.137.x from the remote HaLow-U AP windows system. If you can see the 192.168.137.x IP range, means your setup is success. You can connect to the internet.



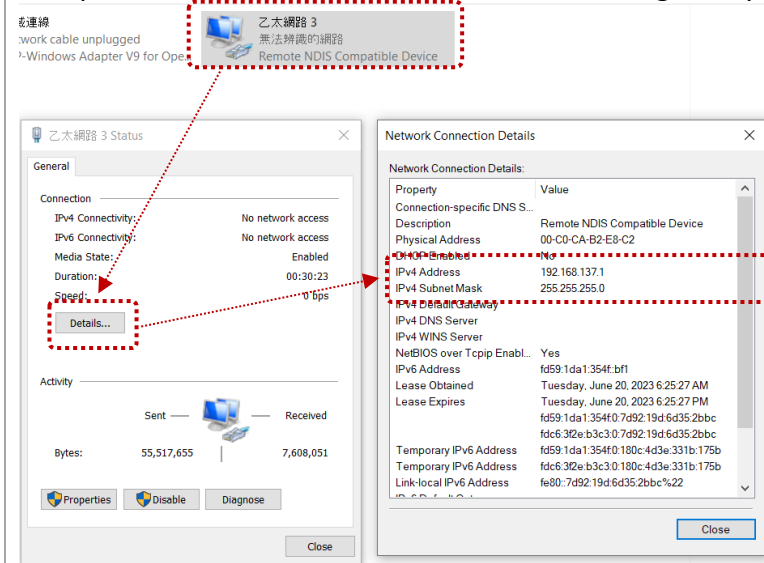
8. Choose the Ethernet port which connects to the Internet. This sample is “Realtek PCIe GbE Family Controller” choose Properties, then go to Sharing tab. Check the Allow other network users and select the HaLow-U “Remote NDIS Compatible Device.” to share the internet.



✓ Speed test result.



After shared Ethernet LAN internet, you can check HaLow-U Remote NDIS Compatible Device IP is 192.168.137.1 which assigned by Windows system



**NOTE:** After this step then go to HaLow-U client setting step 7