Zyxel

Network Switch

GS1900 Series
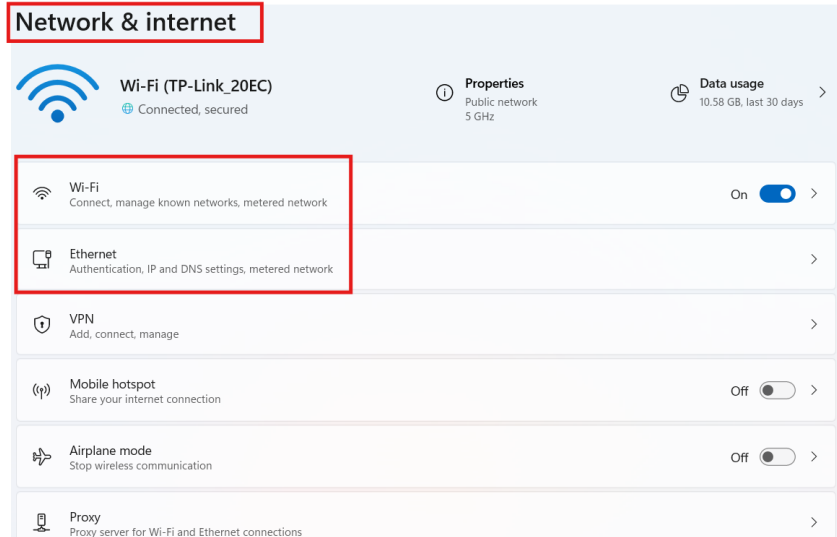
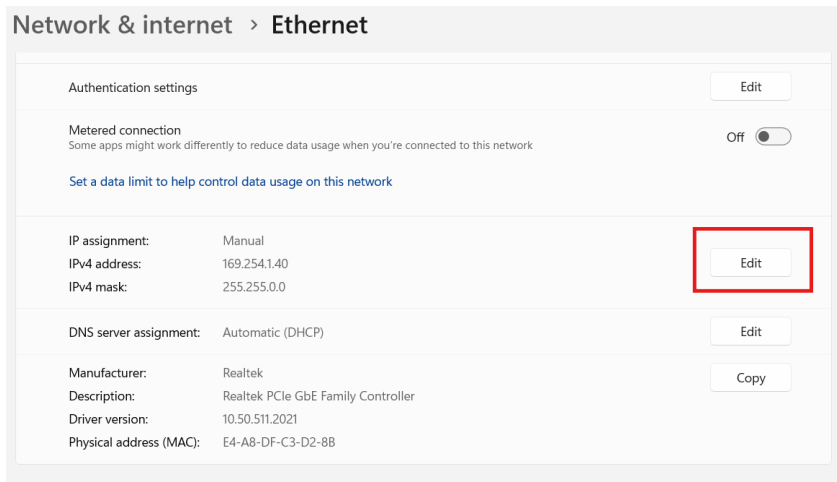# Table of Contents

Modify computer IP address

Windows IP Setup

1. Connect the PC to network setting (Windows 11)

2. Go to Network & Internet and select Ethernet or Wi-Fi

3. Go to Ethernet and Edit
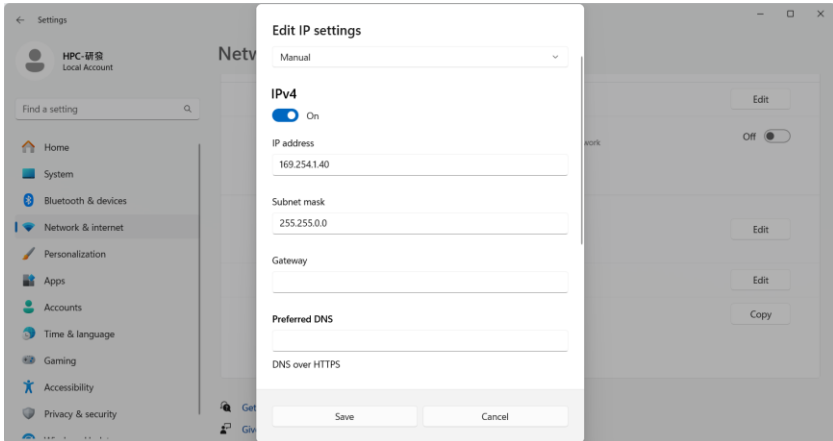
4. Select IP setting From DHCP to Manual and setup IP Address to make sure with the same subnet as switch

MAC IP Setup

1. Connect the Mac to network switch via Ethernet or Wifi
2. Go to Wifi / Ethernet interface and select detail
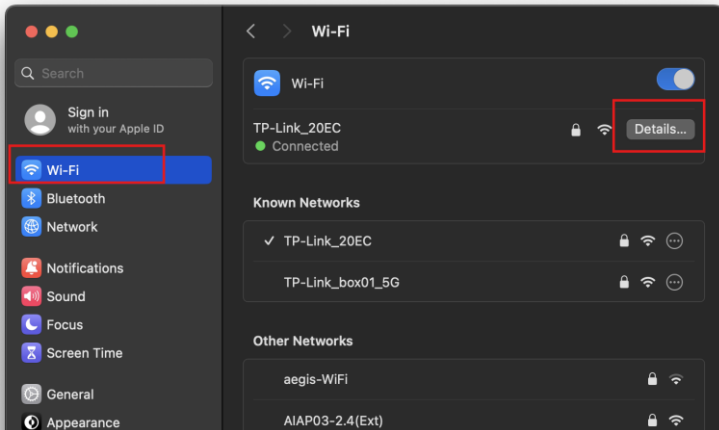
3. Go to TCP/IP and Select Configure IPV4 from DHCP to Manually. Setup IP Address to make sure with the same subnet as switch
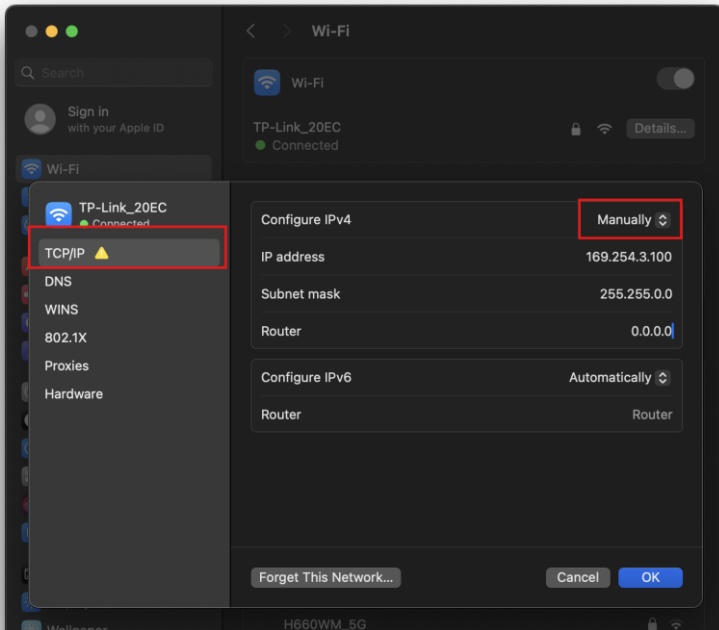
Switch Requirement

The following features need to be enabled on the network switch being used for a Switch
1. Multicast
2. Jumbo Frames / Frame Size / MTU over 9000
3. IGMP Management / Snooping
4. PoE (where being utilised)

Feature explanation

- **Multicast** : (one-to-many or many-to-many distribution) is a group communication where information is addressed to a group of network devices simultaneously

- **Jumbo Frames / Frame Size / MTU :** are Ethernet frames with more than 1,500 bytes of payload. Conventionally, jumbo frames can carry up to 9,216 bytes of payload and must be activated in order to send large packets of data for HDMI distribution

- **IGMP Management / Snooping :** Internet Group Management Protocol (IGMP) snooping is a feature that allows a switch to forward multicast traffic intelligently on the switch. Multicast IP traffic is traffic that is destined to a host group. Host groups are identified by class D IP addresses, which range from 224.0.0.0 to 239.255.255.255. Based on the IGMP query and report messages, the switch forwards traffic only to the ports that request the multicast traffic. This prevents the switch from broadcasting the traffic to all ports and possibly affecting network performance.

- **POE :** (Power over Ethernet) devices are all capable of being powered by PoE. Power Supply Units are available for devices, however, the products are not sold with these included. PoE can be disbaled on the switch if external PSU's are being used

Connecting to the switch Web GUI Interface

1. Open your internet browser (Google Chrome, Mozilla, Internet Explorer etc)
2. Type the network switch default IP address into the web browser bar
3. Enter the default user name and password
   Default IP address: ***192.168.1.1***
   User: admin
   Password: 1234

Configure IGMP Snooping

You can configure the parameters for IGMP snooping, which is used to build forwarding lists for multicast traffic.
Note:
You must log in as the admin user, which has read/write access privileges to change the data on this page.
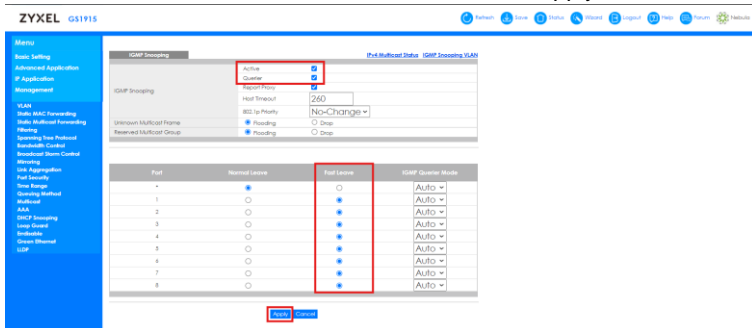
To configuration IGMP Snooping
   Under "Advanced Application"
       Under "Multicast"
           Under "IPv4 Multicast"
              Under "IGMP Snooping"
                 Enable below feature and Apply

To Click save in the top banner of the web GUI