



**Zyxel**

**Network Switch**

**GS1900 Series**

**Quick Setup Guide**

Version: 20240919

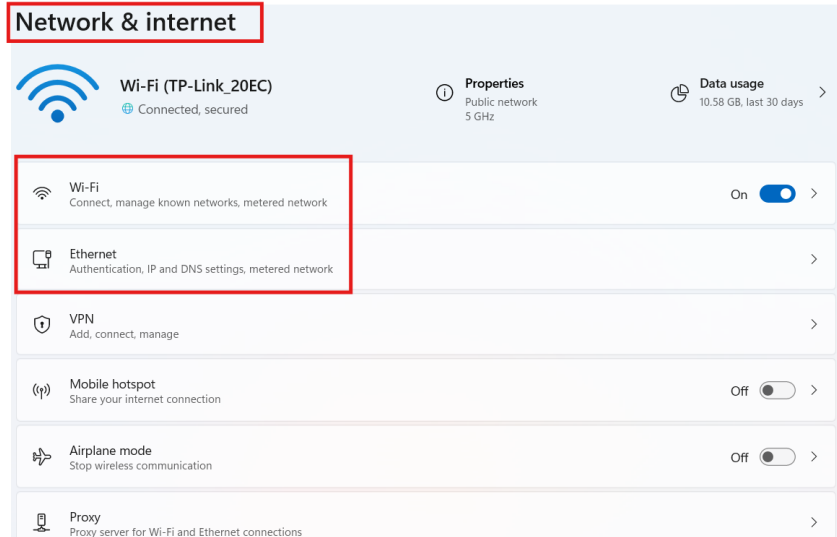
# Table of Contents

<b>Modify computer IP address .....</b>	<b>錯誤! 尚未定義書籤。</b>
<b>Windows IP Setup .....</b>	<b>錯誤! 尚未定義書籤。</b>
<b>MAC IP Setup .....</b>	<b>3</b>
<b>Switch Requirement .....</b>	<b>4</b>
<b>Feature explanation .....</b>	<b>5</b>
<b>Connecting to the switch Web GUI Interface .....</b>	<b>5</b>
<b>Configure IGMP Snooping .....</b>	<b>6</b>

# Modify computer IP address

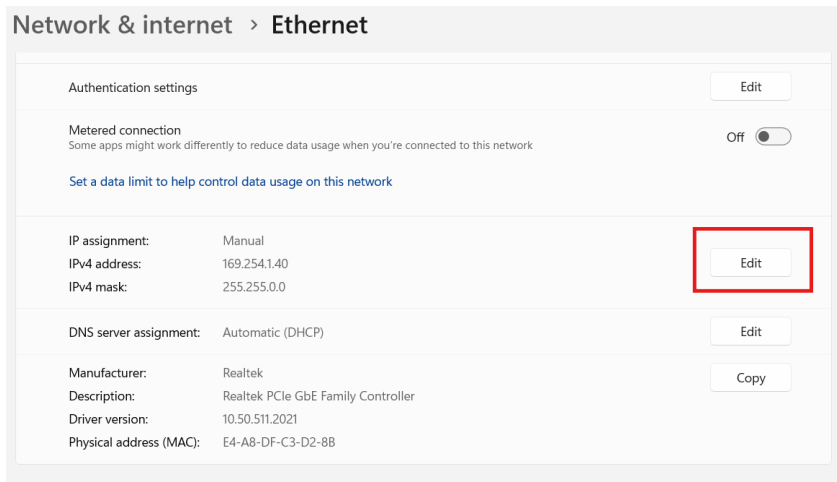
## Windows IP Setup

1. Connect the PC to network setting (Windows 11)
2. Go to Network & Internet and select Ethernet or Wi-Fi



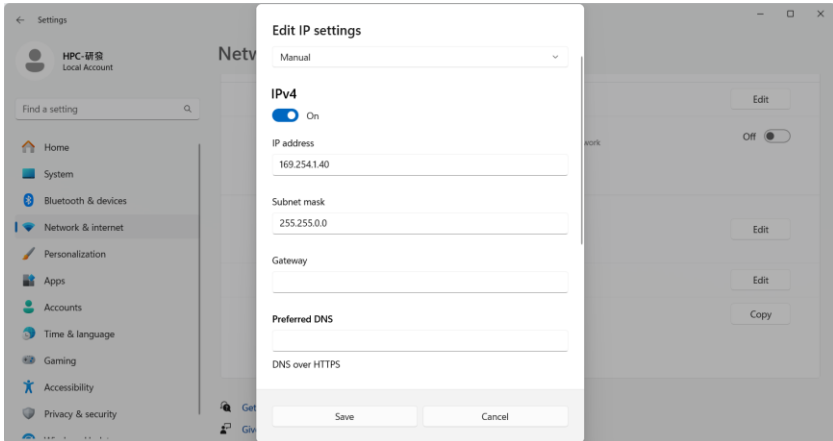
The screenshot shows the Windows 'Network & internet' settings page. The 'Network & internet' title is highlighted with a red box. Below it, the 'Wi-Fi (TP-Link\_20EC)' section is shown as 'Connected, secured'. The 'Ethernet' section is highlighted with a red box and shows 'Authentication, IP and DNS settings, metered network'. Other sections include 'VPN', 'Mobile hotspot', 'Airplane mode', and 'Proxy'.

3. Go to Ethernet and Edit



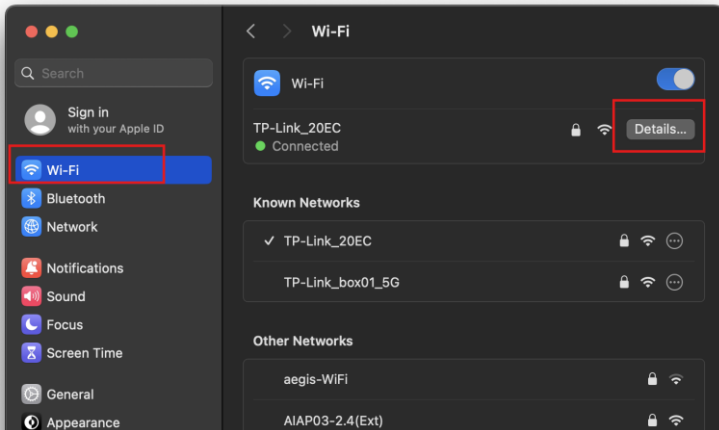
The screenshot shows the 'Network & internet > Ethernet' settings page. The 'Authentication settings' section has an 'Edit' button. The 'Metered connection' section has a toggle switch set to 'Off' and a link 'Set a data limit to help control data usage on this network'. The 'IP assignment' section shows 'Manual' assignment with IPv4 address '169.254.1.40' and mask '255.255.0.0'. The 'Edit' button in this section is highlighted with a red box. The 'DNS server assignment' section shows 'Automatic (DHCP)' with an 'Edit' button. The bottom section shows hardware details like 'Manufacturer: Realtek', 'Description: Realtek PCIe GbE Family Controller', 'Driver version: 10.50.511.2021', and 'Physical address (MAC): E4-A8-DF-C3-D2-8B' with a 'Copy' button.

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

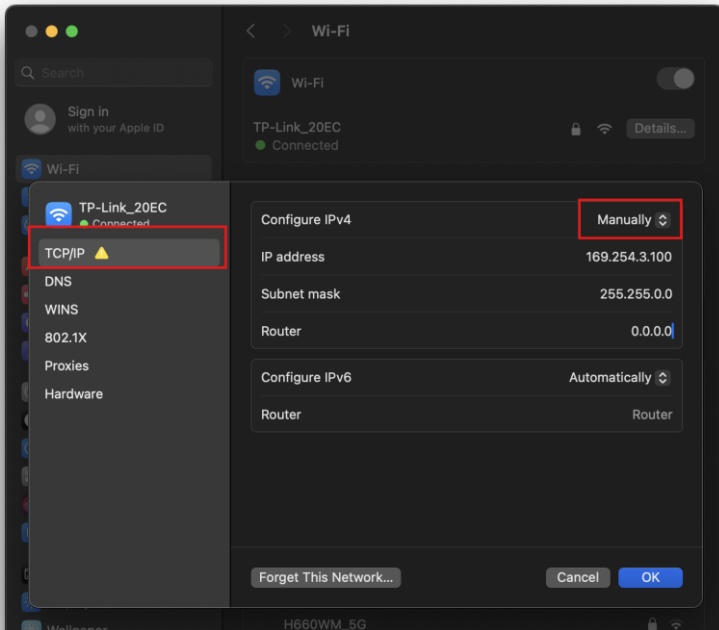


## MAC IP Setup

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 disabled 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

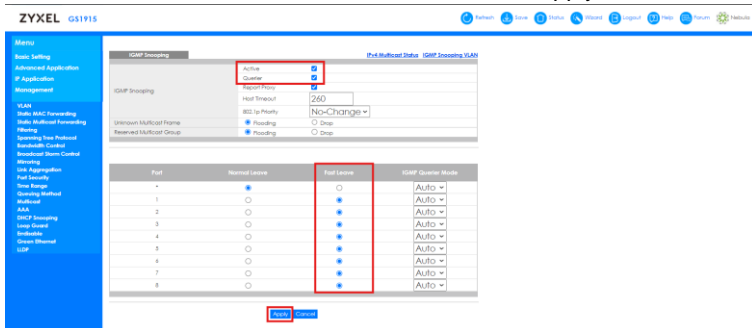
Under “Advanced Application”

Under “Multicast”

Under “IPv4 Multicast”

Under “IGMP Snooping”

Enable below feature and Apply



To Click save in the top banner of the web GUI

