



QCTek Switch

NPG-16M Series

Quick Setup Guide

Version: 20240919

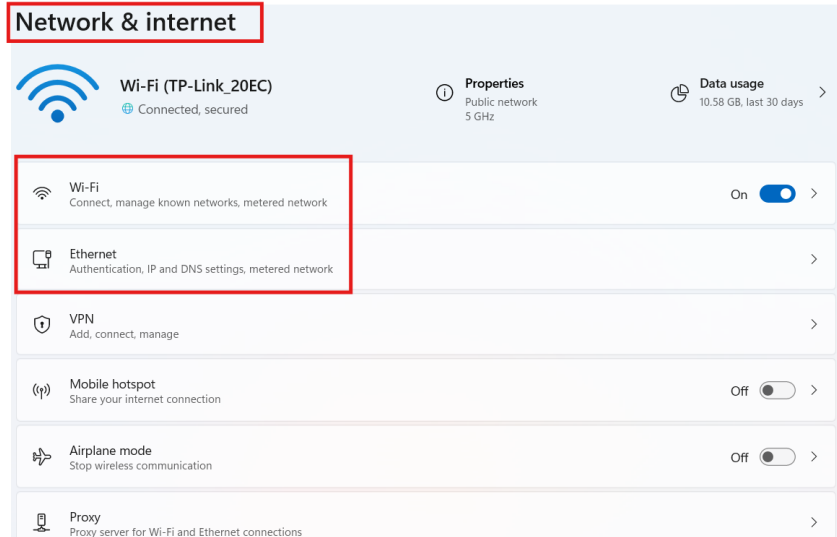
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Modify computer IP address

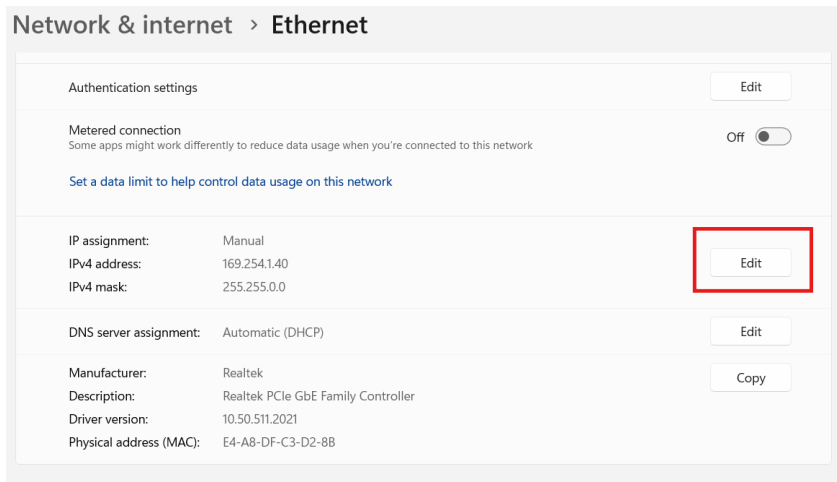
Windows IP Setup

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

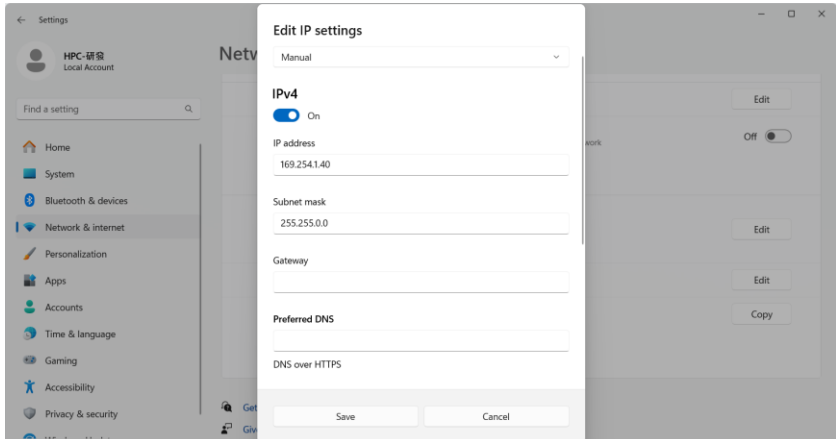


The screenshot shows the 'Network & internet > Ethernet' settings page. The 'Authentication settings' section has an 'Edit' button. The 'Metered connection' section is set to 'Off'. The 'IP assignment' section is set to 'Manual' and shows the following details:

IP assignment:	Manual	Edit
IPv4 address:	169.254.1.40	
IPv4 mask:	255.255.0.0	

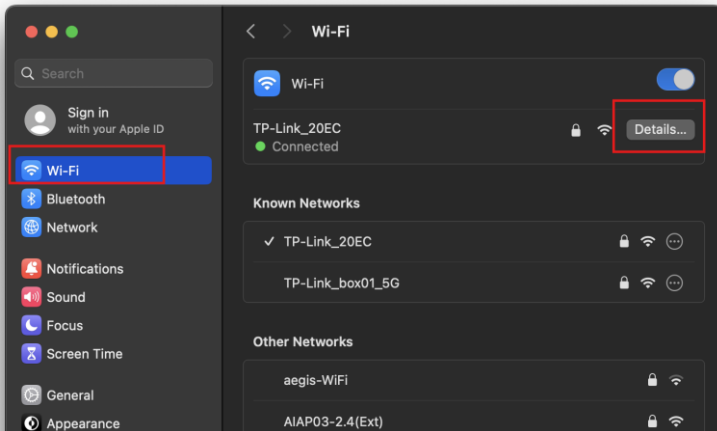
The 'Edit' button in the IP assignment section is highlighted with a red box. Below this, the 'DNS server assignment' is set to 'Automatic (DHCP)' with an 'Edit' button. The bottom section shows hardware details: Manufacturer: Realtek, Description: Realtek PCIe GbE Family Controller, Driver version: 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

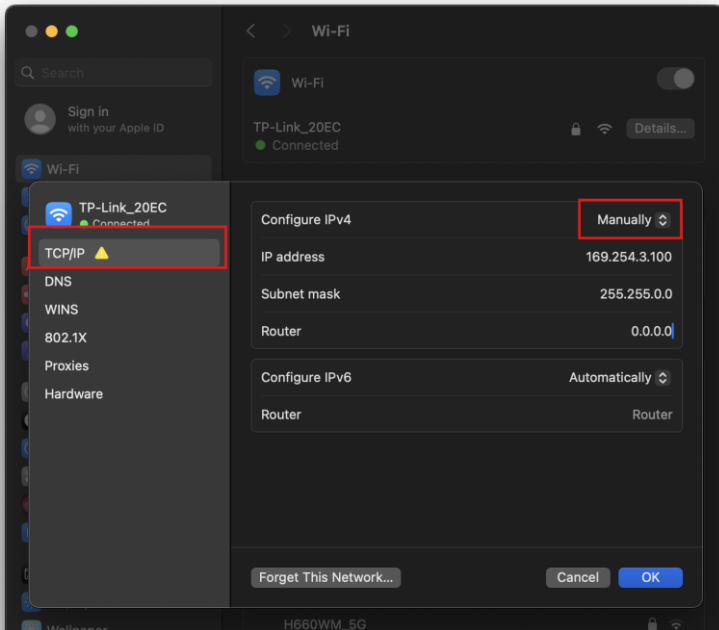


MAC IP Setup

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 switches to intelligently forward multicast traffic to avoid broadcasting the traffic to all ports to improve 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: **192.168.2.1**
 - User: admin
 - Password: admin

Configuration Frame Size

To change Frame Size
Under Configuration
Under Ports

Change Maximum Frame Size over 9000

Port	Link	Current	Speed	Duplex	Auto speed					Flow Control		Maximum Frame Size	Sensless Collision Mode	Frame Length Check	
					10M	100M	1G	2.5G	10G	Enable	Cur Rx				Cur Tx
1	Down	Auto	↓	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑
2	Down	Auto	↓	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑
3	Down	Auto	↓	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑
4	Down	Auto	↓	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑
5	Down	Auto	↓	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑
6	Down	Auto	↓	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑
7	Down	Auto	↓	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑
8	Down	Auto	↓	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑
9	Down	Auto	↓	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑
10	Down	Auto	↓	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑
11	Down	Auto	↓	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑
12	Down	Auto	↓	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑
13	Down	Auto	↓	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑
14	Down	Auto	↓	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑
15	Down	Auto	↓	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑
16	Down	Auto	↓	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑
17	Down	SFP Auto_AMS	↓	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑
18	Down	SFP Auto_AMS	↓	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑

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

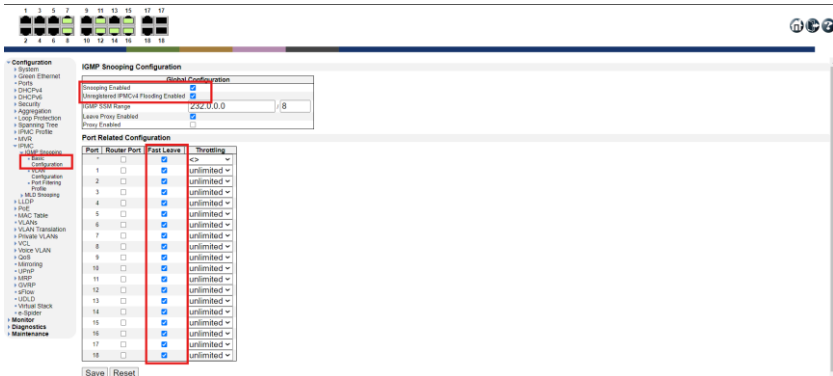
Under Configuration

Under IPMC

Under IGMP Snooping

Under Basic Configuration

Enable below feature and save



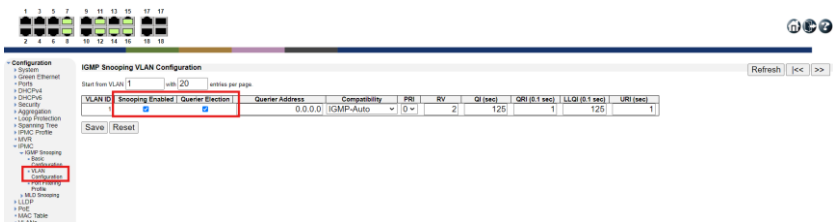
To Configuration VLAN
Under Configuration and Setup feature as below

Under IPMC

Under IGMP Snooping

Under Vlan Configuration

Enable below feature and save



To save Running Configuration

Under Maintenance

Under Configuration

Under Save Start-up config

Press Save Configuration

