

# NETGEAR 10G Network Switch M4300 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

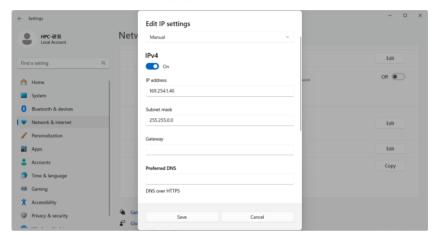


3. Go to Ethernet and Edit





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





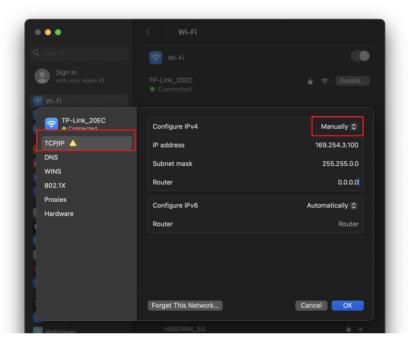
## **MAC IP Setup**

- 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 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 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

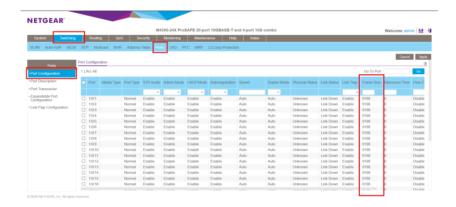
Default IP address: 169.254.100.100

User: admin Password:



### **Configuration Frame Size**

To change the Frame Size
Under "Switching"
Under "Ports"
Under "Port Configuration"
Change Frame Size over 9000 and Click Apply



## **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 Enable IGMP Snooping
Under "Switching"
Under "Multicast"
Under "IGMP Snooping"
Under "Configuration"
Enable below feature for IGMP Snooping
```

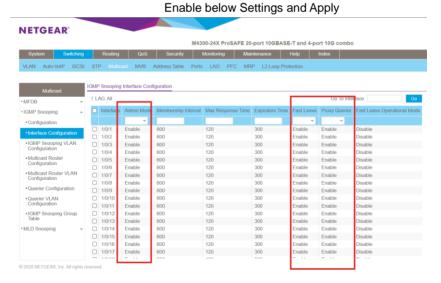


### **NETGEAR**



To change Interface Configuration
Under "Switching"
Under "Multicast"
Under "IGMP Snooping"

Under "Interface Configure"





# To Enable IGMP Snooping VLAN Configuration Under "Switching"

Under "Multicast"

Under "IGMP Snooping"

Under "IGMP Snooping VLAN Configuration"
Enable below Settings and Apply



### To Enable Querier Configuration

Under "Switching"

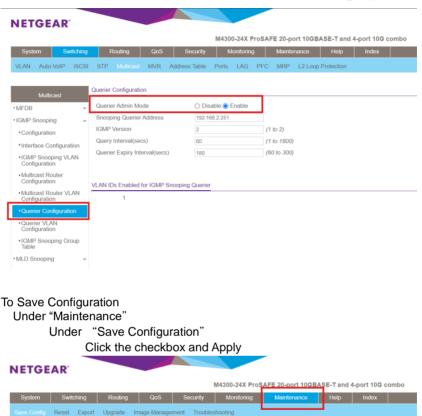
Under "Multicast"

Under "IGMP Snooping"

Under "Querier Configuration"

Enable below Settings and Apply









Auto Install Configuration

Save Configuration

Saving all applied changes will cause all changes to configuration panels that were applied, but not saved, to be saved, thus retaining their new values across a





