

# **NETGEAR AVLINE**

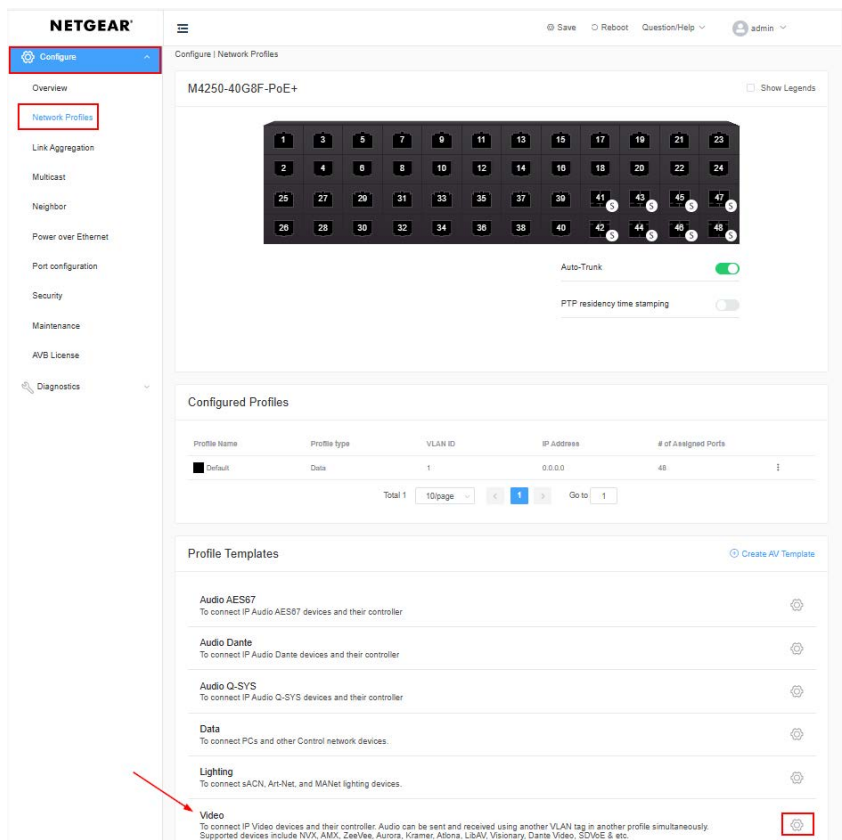
**Switch Engineered for AV over IP**

## **Switch Configuration for IPGEAR-4K**

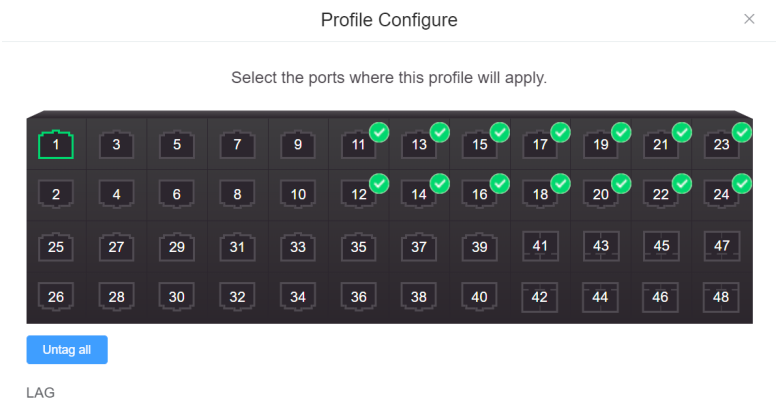
NETGEAR AVLINE switches have been tested and confirmed to work with the IPGEAR-4K system. Please follow the steps in this guide to ensure proper system operation.

**NOTE:** The NETGEAR AVLINE series of switches are designed with AVoIP in mind and therefore have IGMP Snooping and Multicasting enabled by default. As the IPGEAR-4K system utilizes a control box (BG-VOP-CB) that dynamically assigns IP addresses to the Transceivers (BG-VOP-MT) so **no setup of the switch is actually required in a stand alone situation**. However, a standard configuration is shown below if greater control is desired.

- 1. Navigate to Configure > Network Profiles
- 2. Under the “Profile Templates” section click the gear in the “Video” row.



- 3. In the “Profile Configure” pop up window click the ports you wish to configure for AVoIP.



- 4. Type in a "Profile Name."
- 5. Enter a VLAN ID.
- 6. Select a Color to easily identify the ports if desired.

Profile Settings  
Configure your profile settings and preferences.

Profile Name  
IPGEAR-4K

Profile Template  
Video

VLAN ID  
90

Color  
#F48D11

(Use the figure below for steps 7-11)

- 7. Click the toggle switch to enable the "Edit VLAN Routing / DHCP Server."
  - a. This will enable Layer 3 and routable VLANs on the switch for unicast inter-VLAN communication
- 8. Enter the IP Address for the newly chosen VLAN in step 5.
- 9. Enter the appropriate Subnet Mask for the selected IP Address if it does not auto-populate.
- 10. In the "DHCP Server" dropdown select "DHCP Server."
  - a. The Default Router, DHCP Server Pool Start, and DHCP Server Pool End should auto-populate.
- 11. Enter a DNS Server Address for at least DNS Server 1 then click "Apply"

Edit VLAN Routing / DHCP Server

VLAN IP Settings  
Static

VLAN IP Address  
192.168.90.1

Subnet Mask  
255.255.255.0

DHCP Server  
DHCP Server

Default Router  
192.168.90.1

DHCP Server Pool Start  
192.168.90.1

DHCP Server Pool End  
192.168.90.254

DNS Server 1  
192.168.90.1

DNS Server 2

Search Domain

Lease Time(minute)  
240

Cancel

Apply

- 12. IGMP, Multicasting, and PtP are all configured automatically.
- 13. Verify that your selected ports have been configured and the profile has been added.

NETGEAR

Configure

Overview

Network Profiles

Link Aggregation

Multicast

Neighbor

Power over Ethernet

Port configuration

Security

Maintenance

AVB License

Diagnostics

Save Reboot Question/Help admin

Overview

Configure | Overview

M4250-40G8F-PoE+ Show Legends

1 3 5 7 9 11 13 15 17 19 21 23

2 4 6 8 10 12 14 16 18 20 22 24

25 27 29 31 33 35 37 39 41 43 45 47

26 28 30 32 34 36 38 40 42 44 46 48

Connected Connected & Powered Disabled Error

Available 10G SFP+ Fiber Port Blocked Admin Down

1G SFP Fiber Port PoE PoE Disabled L LAG

Authorized Unauthorized VLAN Trunk Auto Trunk

Force Multicast Warning

Device Details

Product Name

M4250

Serial Number

6VJ1255VA027C

Model

M4250-40G8F-PoE+

Date & Time

2021-12-06 03:37:14

Country/Region

N/A

Base MAC Address

34:98:B5:AB:95:57

System Name

Firmware Version

13.0.2.32

AV UI Version

1.0.8.16

Boot Version

1.0.0.7

System Uptime

0 days, 1 hours, 51 mins, 29 secs

OOB IP Address

192.168.0.239

Management IP Address

192.168.30.140

STP Network Redundancy

Neutral mode (default)

Configured Profiles

Profile Name	Profile type	VLAN ID	IP Address	# of Assigned Ports
Default	Data	1	192.168.30.140	34
IPGEAR-4K	Video	90	192.168.90.1	14

- 14. Click “Save” at the top of the window.