



NETGEAR AVLINE

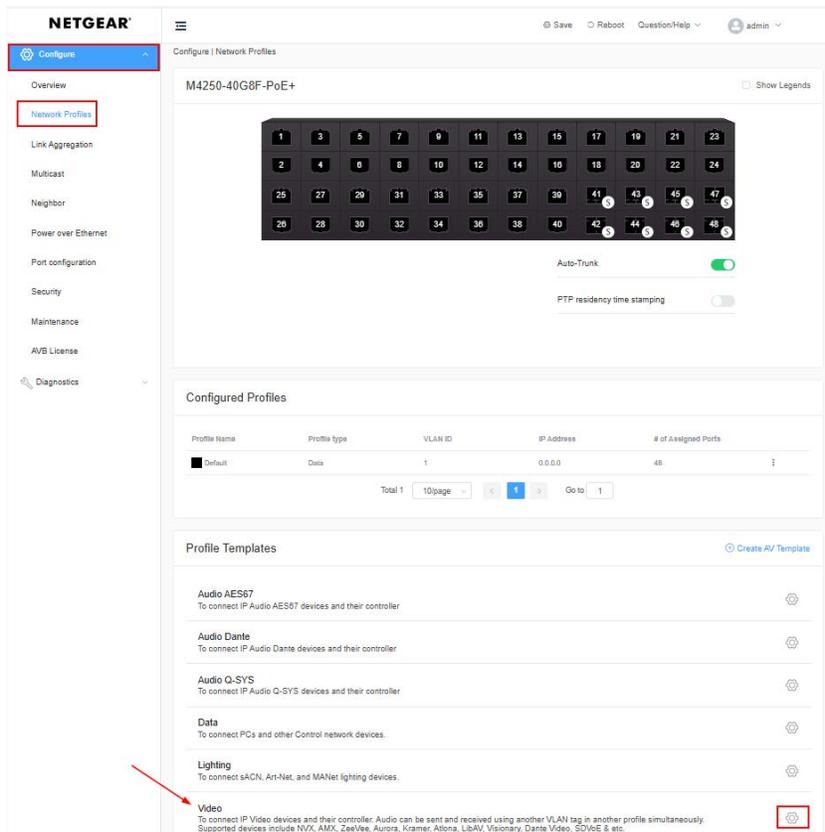
Switch Engineered for AV over IP

Switch Configuration for IPGEAR-4K

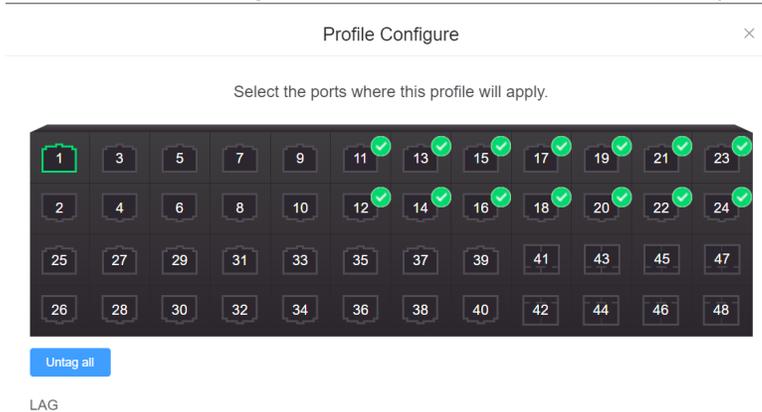
NETGEAR AVLINE switches have been tested and confirmed to work with the IPGear-4K system. Please follow the steps in this guide to ensure proper system operation.

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.

<div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 5px;"> Profile Name IPGEAR-4K </div> <div style="border: 1px solid #ccc; padding: 5px;"> VLAN ID 90 </div>	<div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 5px;"> Profile Template Video ▼ </div> <div style="border: 1px solid #ccc; padding: 5px;"> Color #F48D11 </div>
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(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

<div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 5px;"> VLAN IP Settings Static ▼ </div> <div style="border: 1px solid #ccc; padding: 5px;"> Subnet Mask 255.255.255.0 </div>	<div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 5px;"> VLAN IP Address 192.168.90.1 </div>
<div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 5px;"> DHCP Server DHCP Server ▼ </div> <div style="border: 1px solid #ccc; padding: 5px;"> DHCP Server Pool Start 192.168.90.1 </div>	<div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 5px;"> Default Router 192.168.90.1 </div> <div style="border: 1px solid #ccc; padding: 5px;"> DHCP Server Pool End 192.168.90.254 </div>
<div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 5px;"> DNS Server 1 192.168.90.1 </div> <div style="border: 1px solid #ccc; padding: 5px;"> Search Domain </div>	<div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 5px;"> DNS Server 2 </div> <div style="border: 1px solid #ccc; padding: 5px;"> Lease Time(minute) 240 </div>

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.

The screenshot displays the NETGEAR configuration interface for an M4250-40G8F-PoE+ switch. The left sidebar contains navigation options: Overview, Configure, Network Profiles, Link Aggregation, Multicast, Neighbor, Power over Ethernet, Port configuration, Security, Maintenance, AVB License, and Diagnostics. The main area shows the 'Overview' page with a port status grid. The grid consists of 48 ports arranged in a 4x12 grid. Port 1 is highlighted in green, indicating it is connected. Ports 11-24 are highlighted in orange, indicating they are connected and powered. Ports 25-48 are marked with 'S', indicating they are 1G SFP Fiber Ports. Below the grid is a legend with icons for various port states: Connected (green circle), Connected & Powered (blue circle), Disabled (grey circle), Error (red circle), Available (black circle), 10G SFP+ Fiber Port (S+), Blocked (red circle with slash), Admin Down (red exclamation mark), 1G SFP Fiber Port (S), PoE (green lightning bolt), PoE Disabled (red lightning bolt), LAG (L), Authorized (magnifying glass), Unauthorized (magnifying glass with slash), VLAN Trunk (T), Auto Trunk (A), Force Multicast (plus sign), and Warning (yellow triangle).

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 [Link]	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 [Link]	Management IP Address 192.168.30.140 [Link]	STP Network Redundancy Neutral mode (default) [Link]	

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.