

NETGEAR AVLINE

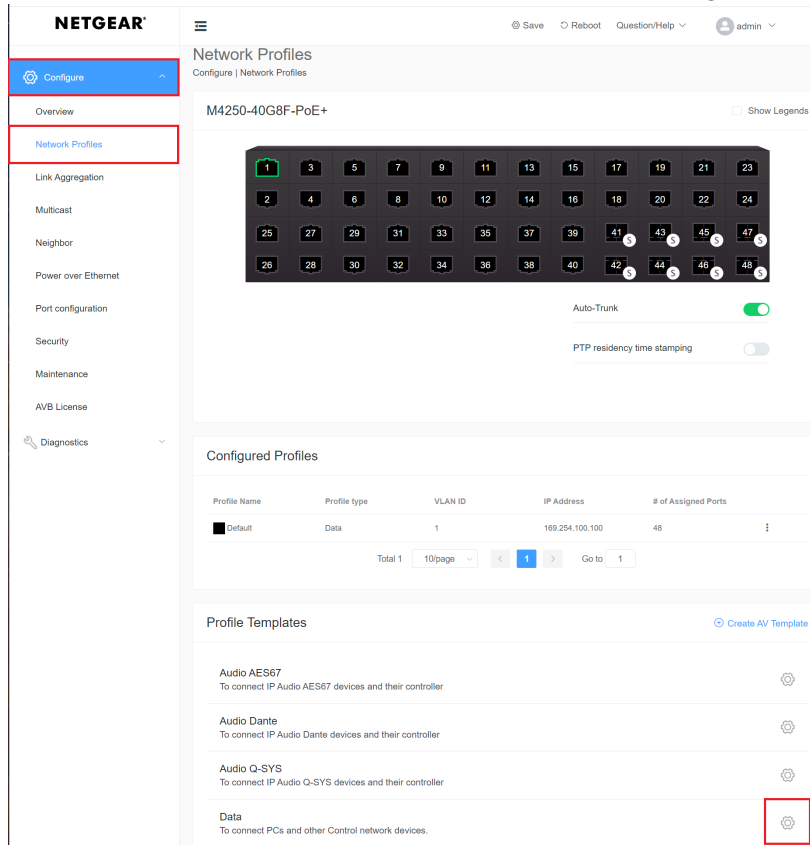
Switch Engineered for AV over IP

Switch Configuration for IPGEAR-4K

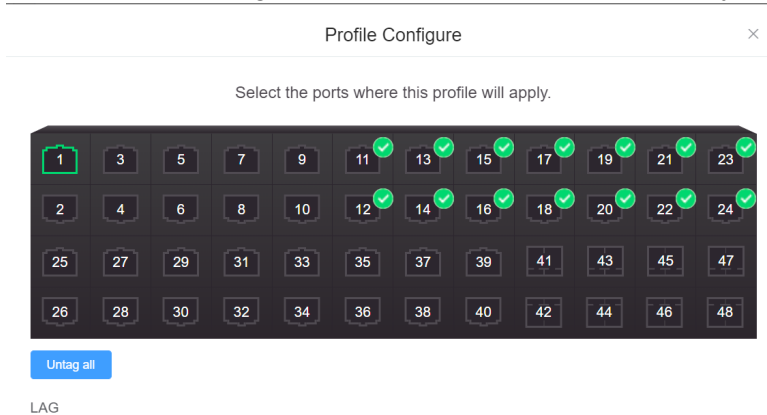
NETGEAR AVLINE switches have been tested and confirmed to work with the IPGEAR-4K system. Please follow the steps in this guide to ensure proper system operation.

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 “Data” 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.

<p>Profile Name</p> <input type="text" value="IPGEAR-4K"/>	<p>Profile Template</p> <input type="text" value="Data"/>
<p>VLAN ID</p> <input type="text" value="90"/>	<p>Color</p> <input type="text" value="#F57004"/>

(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

<p>VLAN IP Settings</p> <input type="text" value="Static"/>	<p>VLAN IP Address</p> <input type="text" value="192.168.90.1"/>
<p>Subnet Mask</p> <input type="text" value="255.255.255.0"/>	<p>Default Router</p> <input type="text" value="192.168.90.1"/>
<p>DHCP Server</p> <input type="text" value="DHCP Server"/>	<p>DHCP Server Pool Start</p> <input type="text" value="192.168.90.1"/>
<p>DNS Server 1</p> <input type="text" value="192.168.90.1"/>	<p>DHCP Server Pool End</p> <input type="text" value="192.168.90.254"/>
<p>Search Domain</p> <input type="text"/>	<p>DNS Server 2</p> <input type="text"/>
<p>Lease Time(minute)</p> <input type="text" value="240"/>	

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 shows the NETGEAR configuration interface for an M4250-40G8F-PoE+ switch. At the top right, a 'Save' button is highlighted with a red box. The interface includes a left-hand navigation menu with options like 'Configure', 'Overview', 'Network Profiles', 'Link Aggregation', 'Multicast', 'Neighbor', 'Power over Ethernet', 'Port configuration', 'Security', 'Maintenance', 'AVB License', and 'Diagnostics'. The main content area is titled 'Overview' and shows a grid of 48 ports. A legend below the grid explains the status of each port, such as 'Connected', 'Connected & Powered', 'Disabled', 'Error', 'Available', '10G SFP+ Fiber Port', 'Blocked', 'Admin Down', '1G SFP Fiber Port', 'PoE', 'PoE Disabled', 'LAG', 'Authorized', 'Unauthorized', 'VLAN Trunk', 'Auto Trunk', 'Force Multicast', and 'Warning'. Below the port grid, the 'Device Details' section provides information about the switch, including Product Name (M4250), Serial Number (6VJ1255VA027C), Model (M4250-40G8F-PoE+), Date & Time (2021-12-06 02:54:30), 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, 8 mins, 45 secs), OOB IP Address (0.0.0.0), Management IP Address (169.254.100.100), and STP Network Redundancy (Neutral mode (default)). At the bottom, the 'Configured Profiles' table lists two profiles: 'Default' (Data type, VLAN ID 1, IP Address 169.254.100.100, # of Assigned Ports 34) and 'IPGEAR-4K' (Data type, VLAN ID 90, IP Address 192.168.90.1, # of Assigned Ports 14).

14. Click "Save" at the top of the window.