

INTRODUCTION

The Pulse-Eight OneIP Transceiver is an ultra-low latency, AV-over-IP solution capable of distributing UltraHD 4K HDMI 2.0 video (18Gbps), with support for HDR, over a 1Gbps Ethernet network.

The following is a step-by-step tutorial for configuring the Netgear M4250 AV Line series switch for use with Pulse-Eight OneIP Transceiver (TRX) units. Please follow the instructions below before connecting any OneIP devices to the switch.



SUPPORTED PRODUCTS

• Netgear M4250 AV Line

IMPORTANT NOTES!

Do **NOT** connect any OneIP devices to the switch before configuration is completed, doing so may cause the switch to run slow or crash due to multicast data flooding the network.

It is important to block multicast data on the port connected to the wider network when using the Netgear M4250 AV Line switches.





CORE SWITCH (OR SINGLE SWITCH) CONFIGURATION

Log in to the Netgear M4250 AV web interface. The Netgear M4250 switches are set to DHCP by default; to find an IP address, you need to scan the network or check the DHCP server; if no DHCP server is available, the switch will default to 169.254.100.100.

- 1. Log in to the Web UI. The default credentials are **admin** and leave the password blank.
- 2. Create a new secure password and username.
- 3. Set the switch to a static IP or DHCP reserved from the DHCP server. This needs to be done in the Main UI under System Information.

IPv4 Management Addre	ess <u>192.168</u>	<u>192.168.0.37/255.255.255.0</u>	
lanagement VLAN ID	1	(1 to 4093)	
outing Mode	Enable O Disable		
onfiguration Method	OHCP O Manual		
Address	192.168.0.37		
ibnet Mask	255.255.255.0		
ateway	192.168.0.254		

- a. To save the settings, click the Apply button in the upper right corner of the screen. The switch will now apply the new IP settings and be on the a static or reserved address.
- b. Now, log out of the Main UI.



4. Using the login and password you have created, navigate to the switch's new IP address and log into the AV UI.

NETGEAR		
Login Name		Main UI allows for advanced network configuration setup with additional network switching features.
Password	0	Main UI Login
AV UI Login		

5. Select the "Network Profiles" from the main menu.

Onfigure	^
Overview	
Network Profiles	
Link Aggregation	
Multicast	
Neighbor	
Power over Ethernet	
Port configuration	
Security	
Maintenance	
AVB License	
🔧 Diagnostics	~



6. Under "Configured Profiles" click the 3 dots on the right-hand side, and select 'Edit'.

Configured Pro	ofiles				
Profile Name	Profile type	VLAN ID	IP Address	# of Assigne	d Ports
Default	Data	1	192.168.0.37	10	E
	Total 1	10/page 🗸	1 Go to 1		2 Edit

7. Set "Profile Template" to Video and click 'Apply'.

Profile Name	Profile Template
Default	Video
VLAN ID	Audio AES67
1	Audio Desta
t VLAN Routing / DHCP Server	Audio Q-SYS
	Data
VLAN IP Settings	Lighting
DHCP client V	Video
Subnet Mask	Video NDI4
255.255.255.0	

8. At the top of the screen click "Save"

This is the switch configured for use with OneIP, and the units can now be plugged into it.

MANUAL VERSION HISTORY

V1.1 - 24th April 2024