



# Configuring Dante

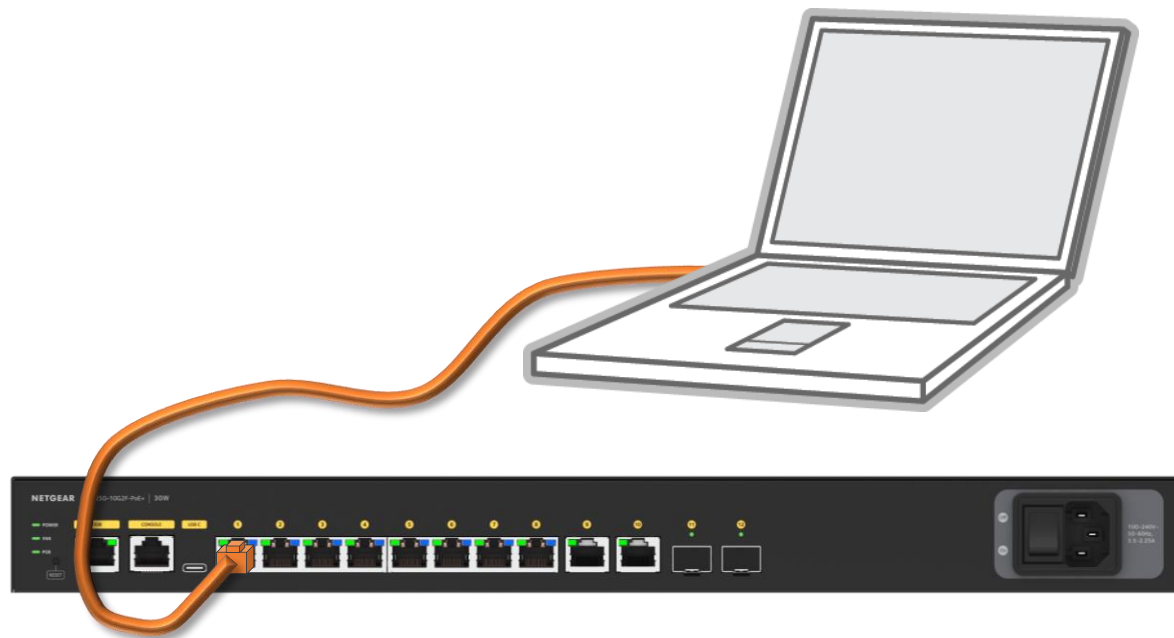
How to configure Dante Audio on M4250 & M4300.

## M4300 & M4250 Configuration Guide for Dante Audio Devices

The functions of Dante devices rely on three key network technologies: Discovery and control (mDNS and known multicast group), QoS (IP DSCP to transmit critical packet, PTP), and Multicast Registration (IGMP for audio streams to join and leave a broadcast).

- Upgrade your switch to the latest firmware.
- It is recommended to clear any previous configuration on the switch.

### Dante Audio Configuration Using The Default VLAN



# NETGEAR®

[AV UI Login](#)

Main UI allows for advanced network configuration setup with additional network switching features.

[Main UI Login](#)

Login using the "AV UI Login."

## Overview

Configure | Overview

M4250-10G2F-PoE+

 Show Legends

Network Profiles

Click on "Network Profiles."

Link Aggregation

Multicast

Neighbor

Power over Ethernet

Port configuration

Security

Maintenance

AVB License

🔧 Diagnostics ▾



Connected	Connected & Powered	Error	Disabled
Available	Blocked	Admin Down	Warning
Force-Authorized	Force-Unauthorized	LAG	VLAN Trunk
Auto Trunk	PoE	PoE Disabled	Force Multicast
1G SFP Fiber Port	10G SFP+ Fiber Port	Shure Device Connected	

## Device Details

Product Name M4250	Serial Number	Model M4250-10G2F-PoE+	Date & Time 2023-02-14 19:05:57 <a href="#">🔗</a>	Country/Region N/A
Base MAC Address 9C:C9:EB:15:EE:F4	System Name <a href="#">🔗</a>	Firmware Version 13.0.4.9	AV UI Version 2.2.2.16	Boot Version 1.0.0.11
System Uptime 3 days, 23 hrs, 57 mins, 5 secs	OOB IP Address 0.0.0.0 <a href="#">🔗</a>	Management IP Address 10.10.20.24 <a href="#">🔗</a>	STP Network Redundancy Neutral mode (default) <a href="#">🔗</a>	

# Network Profiles

Configure | Network Profiles

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- Link Aggregation
- Multicast
- Neighbor
- Power over Ethernet
- Port configuration
- Security
- Maintenance
- AVB License
- Diagnostics

M4250-10G2F-PoE+

Show Legends



Auto-Trunk

PTP residency time stamping

- Connected
- Available
- Force-Authorized
- A Auto Trunk
- S 1G SFP Fiber Port
- Connected & Powered
- Blocked
- Force-Unauthorized
- PoE
- Error
- Admin Down
- L LAG
- PoE Disabled
- Signature Device Connected
- Disabled
- Warning
- T VLAN Trunk
- Force Multicast

Scroll down to "Profile Templates."



Configured Profiles

Edit the Default Profile VLAN 1

## Configured Profiles

Edit the Default Profile VLAN 1 to change its profile template

Profile Name	Profile type	VLAN ID	IP Address	# of Assigned Ports	
Default	Data	1	10.10.20.24	12	⋮

Total 1    10/page    < 1 >    Go to 1

## Profile Templates

[+ Create AV Template](#)

Look for the "Audio Dante" profile and click on the gear icon on the right.

## Audio AES67

To connect IP Audio AES67 devices and their controller



## Audio Dante

To connect IP Audio Dante devices and their controller



## Audio Q-SYS

To connect IP Audio Q-SYS devices and their controller



## Data

To connect PCs and other Control network devices.



## Lighting

To connect sACN, Art-Net, and MANet lighting devices.



## Shure Converged Audio and Control Network

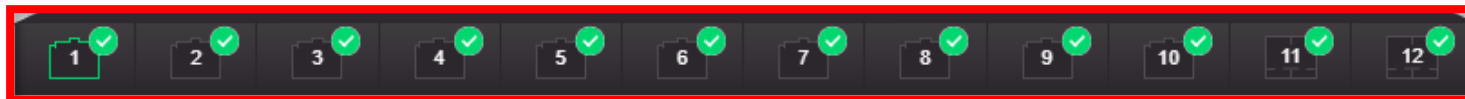
To connect Shure devices requiring audio and control traffic on a single VLAN. Compatible with Dante, AES67, QSYS, and Biamp Dante



## Profile Configure



Select the ports where this profile will apply.



Untag all

LAG

## Profile Settings

Configure your profile settings and preferences.

Profile Name

Default

VLAN ID

1

Profile Template

Audio Dante

Color

#28C8CE

Edit VLAN Routing / DHCP Server



VLAN IP Settings

Static

Subnet Mask

DHCP Server

Off

VLAN IP Address

Cancel

Apply

1. Select all ports for Dante Audio.

NOTE: you can select just the ports you will be using with Dante Audio.

2. Type in the VLAN ID of 1.

NOTE:

Once you select VLAN 1, the "Profile Name" will be greyed out.

This is due to us editing an existing VLAN.

3. The "Color" lets you select a color to highlight the ports you have selected for this profile.

Click the drop-down and select the color you want.

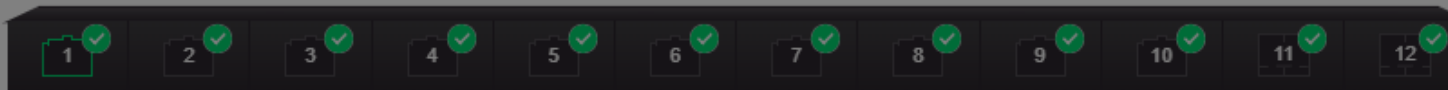


Make sure to click "OK."

4. Once you are done click "Apply."

## Profile Configure

Select the ports where this profile will apply.



Untag all

LAG

## Profile Settings

Configure your profile settings and preferences.

Profile Name

Default

VLAN ID

1

## Edit VLAN Routing / DHCP Server

VLAN IP Settings

Static

VLAN IP Address

Subnet Mask

DHCP Server

Off

Cancel

Apply

## Warning

The VLAN ID is used by another network profile, and this will overwrite the other network profile. Do you want to continue?

Cancel

Confirm

A pop-up will warn us that we are editing an existing VLAN.

Click on **“Confirm.”**



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M4250-10G2F-PoE+

Show Legends



You will see the ports are highlighted on the switch, and the "Profile Type" now shows as "Audio Dante" for the configured profile.

Auto-Trunk



PTP residency time stamping



We can also see that "PTP residency time stamping" is now enabled.

 Connected Connected & Powered Error Disabled Available Blocked Admin Down Warning Force-Authorized Force-Unauthorized LAG VLAN Trunk Auto Trunk PoE PoE Disabled Force Multicast 1G SFP Fiber Port 10G SFP+ Fiber Port Shure Device Connected

## Configured Profiles

Edit the Default Profile VLAN 1 to change its profile template

Profile Name	Profile type	VLAN ID	IP Address	# of Assigned Ports	
Default	Audio Dante	1	10.10.20.24	12	⋮

Total 1

10/page



1



Go to

1

Dante Audio Configuration Using A Separate VLAN

## Overview

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M4250-10G2F-PoE+

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M4250-10G2F-PoE+

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PTP residency time stamping

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## Shure Converged Audio and Control Network

To connect Shure devices requiring audio and control traffic on a single VLAN. Compatible with Dante, AES67, QSYS, and Biamp Dante



Uplink

## Profile Configure

Select the ports where this profile will apply.

1 2 ✓ 3 ✓ 4 ✓ 5 ✓ 6 ✓ 7 ✓ 8 ✓ 9 ✓ 10 ✓ 11 ✓ 12 ✓

Untag all

LAG

## Profile Settings

Configure your profile settings and preferences.

Profile Name

Dante

Profile Template

Audio Dante

VLAN ID

20

Color

#2ED2D8

Edit VLAN Routing / DHCP Server

VLAN IP Settings

Static

VLAN IP Address

Subnet Mask

DHCP Server

Off

Cancel

Apply

2. Type in the "Profile Name."

3. Type in the VLAN ID you want to use.

1. Select all ports for Dante Audio.

NOTE: Make sure that you are not selecting the uplink port when configuring Dante on a separate VLAN to avoid losing access to the switch.

4. The "Color" lets you select a color to highlight the ports you have selected for this profile.

Click the drop-down and select the color you want.



#21D8CF

Clear

OK

4. Once you are done click "Apply."

Make sure to click "OK."

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# Network Profiles

Configure | Network Profiles

## M4250-10G2F-PoE+

Show Legends



You will see the ports are highlighted on the switch, and the new profile is showing under "Configured Profiles."

NOTE: You can edit any profile by clicking on the three-dot menu icon on the right of the profile.

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- PTP residency time stamping

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- LAG
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- Shure Device Connected
- Disabled
- Warning
- VLAN Trunk
- Force Multicast

### Configured Profiles

Profile Name	Profile type	VLAN ID	IP Address	# of Assigned Ports
Default	Data	1	10.10.20.35	1
Dante	Audio Dante	20	N/A	11

Edit the Default Profile VLAN 1 to change its profile template

End

