

1 or 2 Channel Dante Amplifier

AMP-2120-DNT

💡 WyreStorm recommends reading through this document in its entirety to become familiar with the product's features prior to starting the installation process.

Dante®

⚠️ IMPORTANT! Installation Requirements

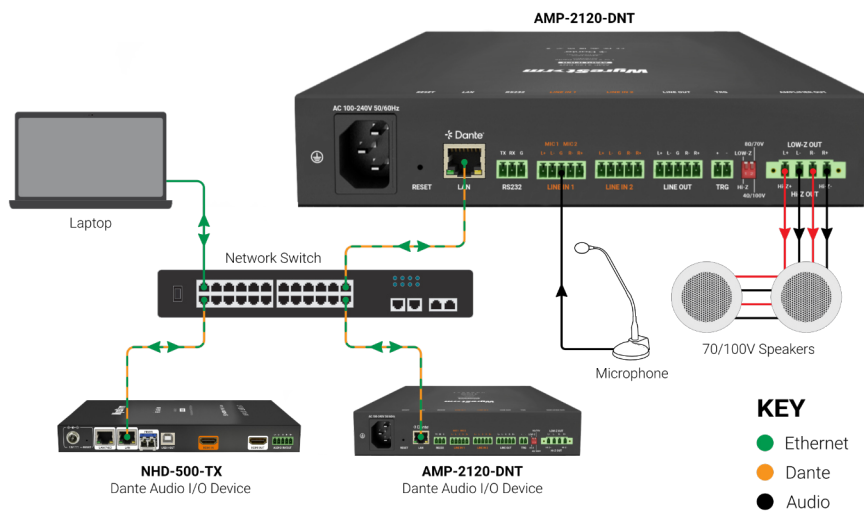
- Visit the product page to download the latest firmware, document version, additional documentation, and configuration tools.
- Read through the [Wiring and Connections](#) section for important wiring guidelines before creating or choosing premade cables.

In the Box

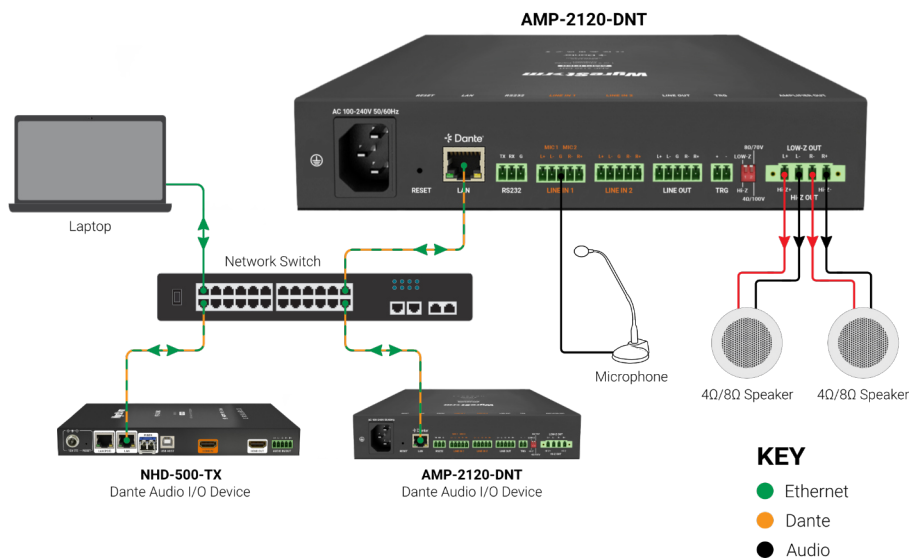
- 1x AMP-2120-DNT
- 1x Power Cord with US/UK/EU/AU Pins
- 1x 3pin 3.5mm Phoenix Terminal
- 3x 5pin 3.5mm Phoenix Terminal
- 1x 2pin 3.5mm Phoenix Terminal
- 1x 4pin 5.0mm Phoenix Terminal
- 1x Quickstart Guide (this document)

Basic Wiring Diagram

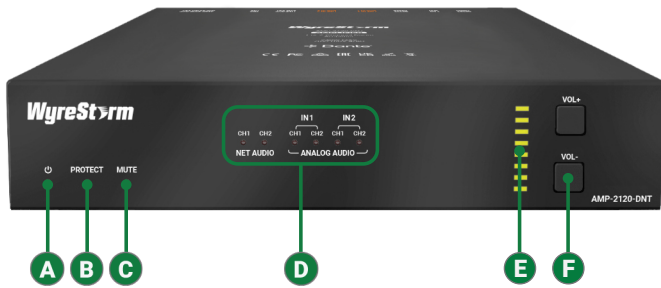
High-Impedance (Hi-Z / 70V / 100V)



Low-Impedance (Lo-Z / 4Ω-8Ω)

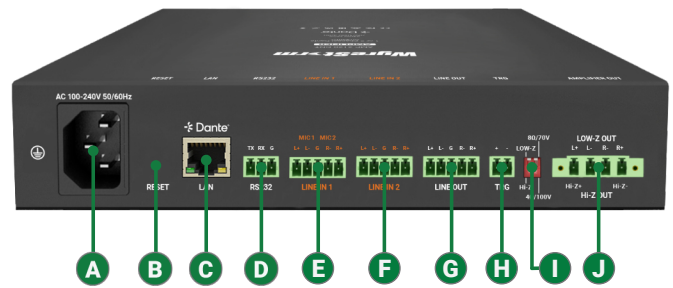


AMP-2120-DNT (Front)



A Power LED	On: The device is powered on. Off: The device is powered off.
B Protect LED	Lit Red: The device enters protect mode. Off: The device is in normal mode.
C Mute LED	Lit Red: The AMP OUT is muted. Off: The AMP OUT is unmuted.
D Net Audio & Analog Audio LEDs	Lit Green: Valid input signal detected. Off: No valid input signal detected.
E Volume Indicators	Shows the amplifier output volume. When adjusting volume, the indicators will increase or decrease.
F Volume Buttons	Press to increase / decrease the volume.

AMP-2120-DNT (Rear)



A Power	Connect to the included power cable.
B Reset	<ul style="list-style-type: none"> Press the button 5 times: Reset IP mode to DHCP, reset the default web UI login password to "admin", and reset telnet login password to "wyrestorm". When the operation takes effect, all indicators will flash three times. After the reset is successful, all volume LEDs will light up, and other LEDs will back to previous status. Hold button for more than 10s then release: Reset the device to factory defaults. When the operation take effect, all LEDs will blinking until release the button. After the reset is successful, all volume LEDs will light up, and other LEDs restore to default status.
C LAN	Connect to a local network for LAN control (telnet & web UI) and Dante audio connection.
D RS232	Connect to a RS232 control device such as PC for API command control.
E LINE IN 1 (MIC 1 & MIC 2)	5-pin 3.5mm phoenix connector. Supports connect to a LINE OUT device or two microphones. The port supports both LINE IN (default) and MIC IN modes, and you can switch between them through the API or the web UI. When MIC mode is enabled, 48V phantom power can be turned on. Make sure your microphone is compatible with phantom power before using this feature, as incompatible microphones may be damaged. This feature is turned off by default.
F LINE IN 2	5-pin 3.5mm phoenix connector. Connect to a LINE OUT device.
G LINE OUT	5-pin 3.5mm phoenix connector. Connect to LINE IN device.
H TRG	2-pin 3.5mm Phoenix female connector, with positive and negative terminals. When activated (short the positive and negative terminals), all device outputs enter mute mode.
I DIP Switch	Two-pin DIP switch. Set amplifier modes. <ul style="list-style-type: none"> Pin 1 is in "Up" position (Low-Z mode), the setting of pin 2 selects the output impedance: (Pin 2 "Up": 8Ω / Pin 2 "Down": 4Ω) Pin 1 is in "Down" position (Hi-Z mode), the setting of pin 2 selects the constant-voltage output: (Pin 2 "Up": 70V / Pin 2 "Down": 100V) DIP switch settings take effect immediately. Note: Make sure the appropriate speakers are connected before adjusting the DIP switch to prevent potential speaker damage.
J Hi-Z / Low-Z OUT	4-pin 5.08mm Phoenix female connector. Supports connecting speakers using either constant impedance or constant voltage mode.

Wiring and Connections

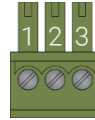
WyreStorm recommends that all wiring for the installation is run and terminated prior to making connections to the amplifier. Read through this section in its entirety before running or terminating any wires to ensure proper operation and to avoid damaging the equipment.

IMPORTANT! Wiring Guidelines

- The use of patch panels, wall plates, cable extenders, kinks in cables, and electrical or environmental interference will have an adverse effect on signal transmission which may limit performance. Steps should be taken to minimize or remove these factors completely during installation for best results.
- WyreStorm recommends the use of shielded category cable to minimize signal noise and interference.

RS-232 Wiring

The AMP-2120-DNT uses a 3-pin RS-232 with no hardware flow control. Most control systems and computers are DTE where pin 2 is RX, this can vary from device to device. Refer to the documentation for the connected device for pin functionality to ensure that the correct connections can be made.







	WyreStorm Connector		3rd Party Device
Pin 1	TX (Transmit)	---> To --->	RX (Receive)
Pin 2	RX (Receive)	---> To --->	TX (Transmit)
Pin 3	G (Ground)	---> To --->	G (Ground)

Dipswitch Settings

The dipswitches allow for changing the audio transmitting mode. Use the table to the right to configure the amplifier's audio mode based on the application's requirement.

When setting a dipswitch setting, power off the amplifier before making a change. Once set, the units can be powered back on.

Functions	Setting
Low-Z Mode (8Ω)	
Low-Z Mode (4Ω)	
Hi-Z Mode (70V)	
Hi-Z Mode (100V)	

Troubleshooting

Why is there no power to the device?

- Ensure the device is powered on.
- Use the power adapter included in the package.

Why is there no audio?

- Make sure all devices are powered on and all cables are properly connected and of good quality.
- Verify that all LED indicators are functioning normally.
- If connecting an audio source, ensure it works properly.

Troubleshooting Tips:

WyreStorm recommends using a cable tester or connecting the cable to other devices to verify functionality.

Specifications

Technical	
Input	<p>LINE IN 1/2:</p> <ul style="list-style-type: none"> • Maximum level: +20dBu balanced • Gain control range: -20dB~+20dB; • Impedance: >10K ohms balanced; • CMRR: > 85dB@1KHz; • THD+N: <0.1% at 1KHz at maximum output level; • S/N: >90dB across 20Hz to 20KHz, unweighted; • Frequency response: ±1dB across 20Hz to 20KHz. <p>MIC IN 1/2:</p> <ul style="list-style-type: none"> • Gain control range: 0dB~+60dB; • CMRR: > 105dB@1KHz; • THD+N: <0.1% at 1KHz at maximum output level; • S/N: >90dB across 20Hz to 20KHz, unweighted; • Frequency response: ±1dB across 20Hz to 20KHz.
Output	<p>LINE OUT:</p> <ul style="list-style-type: none"> • Maximum level: +20dBu balanced. • Gain control range: -100dB~0dB; • Impedance: <100 ohms balanced; • THD+N: <0.1% at 1KHz at maximum output level; • S/N: >90dB across 20Hz to 20KHz, unweighted; • Frequency response: ±1dB across 20Hz to 20KHz. <p>AMP OUT:</p> <ul style="list-style-type: none"> • Class-D high-efficiency; • 2x 120watts @Low-Z 4ohm or 8ohm, 1x 240watts @Hi-Z 70V or 100V • THD+N<0.1% at 1KHz at 3dB below clipping • S/N >100dB across 20Hz to 20KHz, unweighted • Frequency response ±1dB across 20Hz to 20KHz
General	
Operating Temperature/RH	0°C to 45°C (32°F to 113°F)
Storage Temperature/RH	-20°C to 70°C (-4°F to 158°F)
Humidity	10% to 90%, non-condensing
ESD Protection	Human-body Model: ±8kV (Air-gap discharge) / ±4kV (Contact discharge)
Power Supply	AC 100-240V 50/60Hz
Power Consumption (max)	276W
Dimensions (W x H x D)	Dimensions (W x H x D) 215mm x 42 mm x 225mm/8.46" x 1.65" x 8.86" (without Bracket)
Weight	1.57kg / 3.46lbs
Regulatory	
Safety and Emission	CE FCC RoHS RCM EAC UKCA

Note: WyreStorm reserves the right to change product specification, appearance or dimensions of this product at any time without prior notice.

Warranty Information

WyreStorm Technologies ProAV Corporation warrants that its products to be free from defects in material and workmanship under normal use for a period of five (5) years from the date of purchase. Refer to the Product Warranty page on wyrestorm.com for more details on our limited product warranty.

