



amnode4

Flexible and secure amplifier

The amnode4's compact half-rack size combined with its power sharing feature and 600W total output power provides a solution for any kind of scenario.

It is built on top of the nnoince™ secure & scalable audio platform. The nnoince™ platform is growing feature-wise and is evolving every day to counter new IT security threats.

The amnode4 can communicate over the network using all contemporary audio standards such as AES67, RTP or VoIP. It can add an extra encryption layer to prevent eavesdropping by malicious actors.

A secure-enclave element built in enables secure connectivity to all major industry cloud providers. The device can be used with Simpleway CX cloud out of box.

It has powerful built-in signal processing capabilities exceeding capabilities of dedicated signal processors. It is also equipped for neural network accelerator for audio applications.

key features

- Delivers **600W total power** in a **compact 1U** half-width rack package
- Allocate power to 4 channels any way required thanks to **power sharing**
- Use **auto-setup** to automatically optimize settings for speakers
- Scale by using the **versatile mounting** solution
- Process audio using powerful built-in **processing engine**
- Hardware **neural engine** for applications such as gunshot detection and speech to text
- Keep your audio streams private by adding **encryption** to industry standard audio protocols such as **AES67**
- Trust your audio devices following latest **IT and physical security** standards
- Securely connect your infrastructure to cloud systems such as **Simpleway CX** cloud



nnoince™ by Simpleway

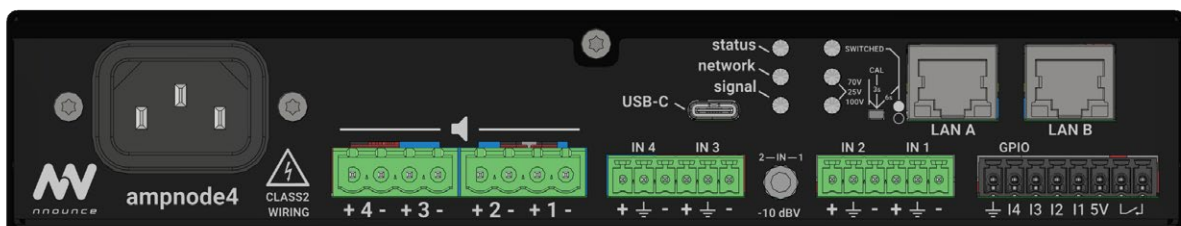
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Order ID	WA002	
Description	Secure 4-channel amplifier with built-in processing and I/O	
Audio	<p>600W Total rated power DA Converter: 24 Bit @ 48 kHz 115 dB-A Dynamic Range – 0.00x % THD+N Max output level 7.6 Vrms 2.5 ms end-to-end latency in AES67 mode</p> <p>AD Converter: 24 Bit @ 48 kHz 125 dB-A Dynamic Range – 0.00x % THD+N Max input level 18 dBu / 6.16 Vrms Crosstalk (1 kHz) – 60 dB Input impedance 20 kΩ balanced CMRR 60 dB</p>	
Connectivity	<p>4 x Output channels 4 x Balanced input channels 4 x Control input 1 x Control output (COM, NO) 1 x USB-C 2 x LAN RJ45 1000 Mbps</p>	<p>Power sharing channel loading Maximum power per channel symmetrical load: 125W@100V, 150W@70V, 150W@8Ω</p> <p>Maximum power assignable to single channel: 500W@100V, 600W@70V, 600W@8 Ω</p>
DSP	<p>Built-in web-based graphical DSP pipeline designer 60+ Component library Extended precision fixed point processing API library</p>	
User Interface	<p>Front panel diagnostic LEDs Rear panel diagnostic LEDs</p>	<p>Web-based interface Cloud-connected</p>
Security	<p>Secure boot Encrypted firmware Tamper sensing Secure enclave chip AES256-GCM encryption for AES67</p>	
Compatibility	Q-SYS, Bosch PRAESENSA	
Storage	Onboard microSD card slot, included 64 GB card	
Environmental	<p>Operating temperature range 32 °F – 122 °F (0 °C – +50 °C) Storage temperature range 14 °F to 140 °F (-10 °C – +60 °C)</p>	
Power	<p>IEC 10 A Connector 100–240 VAC @ 50–60Hz Universal regulated switch mode with PFC, SRM</p>	
Dimensions	<p>210 mm (W) x 275 mm (D) x 40 mm (H) 2 700 g without mounting kit</p>	
Accessories	Mounting kit	



REAR VIEW



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