ampnode4

Flexible and secure amplifier

The ampnode4'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 nnounce™ secure & scalable audio platform. The nnounce™ platform is growing feature−wise and is evolving every day to counter new IT security threats.

The ampnode4 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

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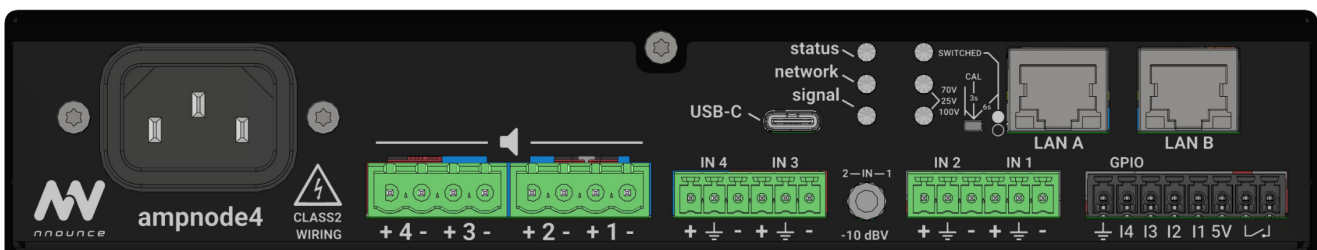|	
Description	Secure 4−channel amplifier with built−in processing and I/O
Audio	600W Total rated power DA Converter: 24 Bit @ 48 kHz 115 dB−A Dynamic Range − 0.00x % THD+N Max output level 7.6 Vrms 2.5 ms end−to−end latency in AES67 mode AD Converter: 24 Bit @ 48 kHz 125 dB−A Dynamic Range − 0.00x % THD+N Max input level 18 dBU / 6.16 Vrms Crosstalk (1 kHz) − 60 dB Input impedance 20 kΩ balanced CMRR 60 dB
Connectivity	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 Power sharing channel loading Maximum power per channel symmetrical load: 125W@100V, 150W@70V, 150W@8Ω Maximum power assignable to single channel: 500W@100V, 600W@70V, 600W@8 Ω
DSP	Built−in web−based graphical DSP pipeline designer 60+ Component library Extended precision fixed point processing API library
User Interface	Front panel diagnostic LEDs Rear panel diagnostic LEDs Web−based interface Cloud−connected
Security	Secure boot Encrypted firmware Tamper sensing Secure enclave chip AES256−GCM encryption for AES67
Storage	Onboard microSD card slot
Environmental	Operating temperature range 32 °F − 122 °F (0 °C − +50 °C) Storage temperature range 14 °F to 140 °F (−10 °C − +60 °C)
Power	IEC 10 A Connector 100−240 VAC @ 50−60Hz Universal regulated switch mode with PFC, SRM
Dimensions	210 mm (W) x 275 mm (D) x 40 mm (H) 2 700 g without mounting kit
Accessories	Mounting kit

REAR VIEW