



# ampnode4LS

## Amplifier platform for mission critical applications

Introducing the ampnode4LS, the next step of our amplifier evolution designed with life-safety applications at its core. This advanced amplifier offers a robust 4x600W of audio output provided by redundant power supplies and is also equipped with spare-amplifier channel switching to ensure continuous, reliable performance under any circumstances.

The ampnode4LS features our new auxiliary bus connectivity for connecting low-cost mic stations and controllers, further expanding its versatility in complex audio setups.

Built on the nnoince™ secure and scalable audio platform, the ampnode4LS benefits from continuous feature enhancements and security updates that safeguard against emerging IT threats. Its communication capabilities are broad, supporting all contemporary audio standards like AES67, RTP, and VoIP, and it incorporates an additional encryption layer to protect against eavesdropping. With built in signal processing the ampnode4LS sets a new standard in secure, powerful, and reliable audio amplification solutions.

## key features

- Delivers 4 channels each at **600W** in 1U form factor
- Built for applications requiring **high-availability and redundancy**
- Unique **self-backup feature** enabling 1:3 redundancy without extra amplifiers
- **Phantom-power** capable audio inputs capable of powering high quality **ambient noise sensing microphones**
- Built-in **powerful audio processing**
- 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
- 1U form factor



nnoince™ by Simpleway

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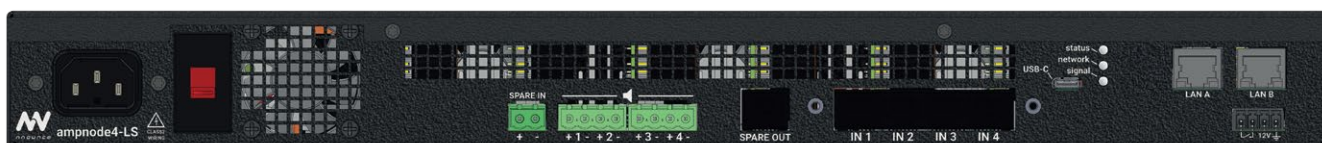
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# ampnode4LS



<b>Order ID</b>	WA008	
<b>Description</b>	4-channel-amplifier for mission critical applications with auxiliary bus	
<b>Audio</b>	Power: 4 x 600W Output channel @ 0.1% THD + N 1W to 500W @ 0.015% THD + N Frequency response: 20 Hz – 20 kHz ( ± 0.5 dB) Signal-to-Noise ratio: >100dB (A-weighted)	
<b>Connectivity</b>	4 x Powered channel outputs 1 x Powered backup channel input 1 x Backup channel line-level output 4 x Auxiliary bus ports usable as line inputs, microphone inputs with 20v phantom power or control device inputs 1 x Relay output	Output channel loading: Maximum power assignable to single channel: 600W@70V, 600W@8Ω Maximum power per channel with symmetrical loading for high-crest factor content: 600W@70V, 600W@8Ω Maximum power per channel with symmetrical loading for 1khz sine wave: 200W@70V, 200W@8 Ω
<b>DSP</b>	USB-C 2 x LAN RJ45 1000 Mbps	Ability to sustain full rated power 90 seconds
	Built-in web-based graphical DSP pipeline designer 60+ Component library Extended precision fixed point processing API library	
<b>User Interface</b>	Front panel diagnostic LEDs Rear panel diagnostic LEDs	Web-based interface Cloud-connected
<b>Security</b>	Secure boot Encrypted firmware	Tamper sensing AES256-GCM encryption for AES67
<b>Storage</b>	Onboard uSD card slot	
<b>Environmental</b>	Operating temperature range 32 °F – 122 °F (0 °C – 50 °C) Storage temperature range 14 °F to 140 °F (-10 °C – 60 °C)	
<b>Power</b>	IEC 10 A Connector 90 - 132 V @ 60Hz, 180 – 264 V @ 50 Hz Dual redundant power supply with 100 / 240 V select IEEE 802.3af power over Ethernet (PoE)  Idle all channels running 55 W Standby mode 20 W, Dynamic power mode – automatically scales from 10W up based on content Deep sleep mode with PoE only power (0 W consumption on AC)  Forced Air Cooling – 5x dynamic-speed-control fans	
<b>Dimensions</b>	420 mm (W) x 275 mm (D) x 40 mm (H) 5 kg without mounting kit	
<b>Accessories</b>	Mounting kit	



REAR VIEW



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