



AMPLITUDE¹⁶

The Power Amplifier designed
for Immersive Theaters and Integration



16 Channels
Power amplifier



Designed with ICEpower to Trinnov's specifications, the Amplitude¹⁶ combines leading class D modules with a custom dual power supply, advanced heat dissipation, and now an optional Dante[®] input board, making it the first Trinnov amplifier ready for Audio over IP.

www.trinnov.com

AMPLITUDE¹⁶



DESIGNED FOR IMMERSIVE SYSTEMS

The Amplitude¹⁶ was designed for today's high-channel-count home theaters. With 16 channels of Class-D amplification, it can power a complete immersive system on its own or be paired with additional units for large-scale projects.

POWER AND FLEXIBILITY IN ONE CHASSIS

Each channel delivers 200W into 8Ω or 400W into 4Ω, with the option to bridge pairs for up to 1,000W per channel. This flexibility allows the Amplitude¹⁶ to adapt to screen channels, subwoofers, or surround speakers, all from a compact 3RU design.

ENGINEERED FOR SILENT PRECISION

The Amplitude¹⁶ is gain-matched to the Altitude processors, ensuring maximum dynamic range and a vanishingly low noise floor, essential in theaters with many loudspeakers. Combined with a dual power supply, optimized thermal design, and ultra-low distortion, it delivers clean, silent power in every situation.

PERFECT MATCH FOR ALTITUDE PROCESSORS

Two DB25 inputs simplify analog integration, while the optional Dante input board adds Audio over IP connectivity. The Amplitude¹⁶ shares the same DAC architecture as the Altitude processors, guaranteeing identical conversion quality, whether performed by the processor or the amplifier.



Design

- 16-channel power amp with a dual 8-channel design
- Dual power supply and 2 AC mains inlets
- Front panel LEDs to indicate:
 - Normal operation, clipping, protection
 - Bridge status for each pair of channels

Power Specifications

- One Channel 8 Ω : 200W (1kHz, 0,1% < THD+N)
- One Channel 4 Ω : 400W (1kHz, 0,1% < THD+N)
- One Channel Bridged 8 Ω : 800W (1kHz, 0,1% < THD+N)
- One Channel Bridged 4 Ω : 1000W (1kHz, 0,1% < THD+N)
- Total Output Power (120 VAC): 2800W all channels driven SE or BTL
- Total Output Power (230 VAC): 3200W all channels driven SE or BTL
- Peak Power: 6080W all channels driven SE or BTL
- Gain: 16 dB single ended / 22 dB bridged

Audio Performance

- Frequency response: +0/- 0,6 dB, 20 Hz to 20 kHz, load-independent
- THD+N Single Ended: 0.0015% - 8 Ω , 5W (2dBu)
- THD+N Bridged: 0.0015% - 8 Ω , 20W (8dBu)
- Damping factor: 2340 at 100Hz / 1820 at 1kHz / 354 at 10kHz
- Signal to noise ratio: 126 dB ref to rated 1% THD output (A-Weighted)
- Crosstalk: 96dB single ended 200W 8 Ω
- Intermodulation Distortion: Less than 0.05%

Audio Inputs & Outputs

- Input Connectors: 2x DB25 Female, Tascam Pinout
- Input Impedance: 47 k Ω , each phase
- Input Sensitivity: 6.16V (+18dBu)
- Output Connectors: 1x 5 way binding post per channel

Audio over IP (Optional Dante Input Board)

- Protocol: Dante® (AES67 compatible)
- Channels: Up to 16 network inputs
- Connectors: 2x RJ45 (Primary & Secondary)
- Max output level: +18 dBu (matched to Amplitude¹⁶ input)
- THD+N: -110 dB ($\approx$ 0,0003%, 1kHz, 0 dBFS, 20 kHz BW)
- Dynamic Range: 115 dB A-weighted (ref +18 dBu)

Power Supply

- Power Requirement: 2x 100/240V (auto-selecting)
- Power Consumption: 0,52W Standby; 125W idle; Max 2x 2000W
- Power Input: 2x IEC C14
- Inrush current at Startup: 16A (<100ms, each inlet)
- Thermal Conversion: 683 BTU/h MAX
- Mains Fuse: 2x 10 Amp slow blow
- 12V Trigger Input: 5-15 VDC; Steady State (mini-jack TS)
- 12V Trigger Output: 8-10 VDC; Steady State (mini-jack TS)

Weight & Dimensions

- Dimensions (W x H x D) mm, including rack ears: 482 x 132 x 452
- Dimensions (L x H x P) inches, including rack ears: 19" x 5 1/5" x 17 4/5"
- Shipping box dimensions (W x H x D) cm: 54 x 53 x 22
- Weight: 20.5kg / 45.3 lbs
- Shipping weight / volume: 22.4kg / 0.064 m³

Warranty

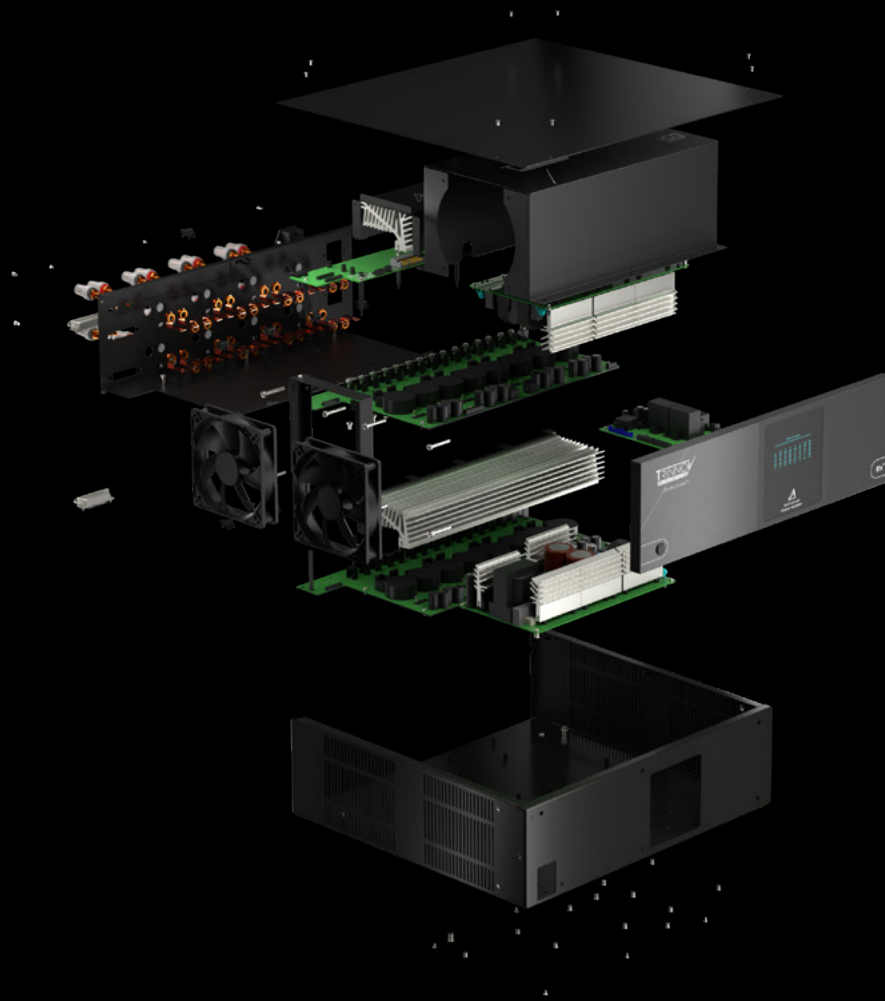
- Standard Warranty: 5 year
- Transferable: Yes

ONE AMPLIFIER. EVERY PROJECT

From compact media rooms to reference-grade theaters, the Amplitude¹⁶ delivers the power, precision, and integration flexibility demanded by today's most ambitious projects. Its scalable design, silent operation, and seamless compatibility with Altitude processors make it the most versatile multichannel amplifier Trinnov has ever built.

When used in analog mode, it provides effortless power to any system configuration. With the **optional Dante input board**, it becomes part of a fully digital, networked signal chain, ensuring consistency, simplicity, and uncompromised transparency, even in large-scale, high-density installations.

Pair it with an Altitude processor to experience the ultimate Trinnov ecosystem: seamless, scalable, and built to last.



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