

SPECIFICATIONS

Operating conditions

Temperature	Room temperature from 0° C / 32° F to +50° C / 122° F
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Amplification and power supply

Amplification class	Class D
Output power CEA-2006 / 490A (1% THD, 1 kHz, all channels driven)	4 x 1400 W RMS (at 8 Ω) 4 x 2600 W RMS (at 4 Ω) 4 x 3300 W RMS (at 2.7 Ω)
Power supply model	Universal Switched Mode Power Supply (SMPS) with Power Factor Correction (PFC)
Power factor	> 0.9
Mains rating	100 V - 240 V ~ ±10%, 50-60 Hz
Nominal current requirements	30 A for 100-120 V, 16 A for 200-240 V

Audio specifications

Frequency response	20 Hz - 20 kHz, ± 0.1 dB (at 8 Ω, 60 W output power) 20 Hz - 20 kHz, ± 0.1 dB (at 4 Ω, 120 W output power)
Distortion THD+N (20 Hz - 10 kHz)	< 0.05% (at 8 Ω, 60 W output power) < 0.1% (at 4 Ω, 120 W output power)
Output dynamic range (20 Hz - 20 kHz, 8 Ω, A-weighted)	> 114 dB
Noise level (20 Hz - 20 kHz, 8 Ω, A-weighted)	< -72 dBV
Channel separation (at 1 kHz, 4 Ω)	> 85 dB
Latency (for both analog and digital inputs)	Standard operating mode: 3.84 ms Low latency operating mode: 0.76 ms

DSP

Digital Signal Processor (DSP)	2 x SHARC 32-bit, floating point, 96 kHz sampling rate
I/O routing	Flexible 4x4 routing matrix
Per output channel	Built-in EQ station with 8 IIR, 3 FIR EQ filters Array morphing (LF contour, zoom factor) Air absorption compensation filters Internal IIR and FIR EQ algorithms for speaker phase linearization and improved impulse responses L-DRIVE protection (excursion, temperature and over-voltage)
Output delay	0 ms to 1000 ms
Transducers protection	L-DRIVE: excursion / temperature / over-voltage

Circuits protection

Mains and power supply	Over and under voltage / over temperature / overcurrent (fuse protection, and inrush current protection)
Power outputs	Over current / DC / short circuit / rail over and under voltage / over temperature
Cooling	Cooling fans with temperature control speed

Inputs

Analog: 4 balanced analog line inputs with passively connected link

A/D conversion	4 cascaded 24-bit analog/digital converters (130 dB dynamic range)
Input impedance	22 kΩ (balanced)
Max. input level	22 dBu (balanced, THD 1%)

Digital: 2 AES/EBU inputs (4 channels) with electronically buffered link and failsafe relay

Standard	AES/EBU (AES3)
Sampling frequency (Fs)	44.1, 48, 88.2, 96, 176.4 or 192 kHz
Word length	16, 18, 20 or 24 bits
Synchronization	Signal resampled to internal clock at 96 kHz
Sampling frequency	96 kHz (SRC referenced to the amplified controller internal clock)
Dynamic range	140 dB
Distortion (THD+N)	< -120 dBfs
Bandpass ripple	± 0.05 dB (20 Hz - 40 kHz, 96 kHz)
Fallback mode	AB to CD: digital to analog / digital to digital
Switchover conditions	No clock, loss of lock, CRC error, bipolar encoding error or data slip
Constant delay	Independent of input Fs
Constant level	Upon user setting of AES/EBU gain, independent of input Fs
Input gain	-12 dB to +12 dB, 0.1 dB steps
Revert to AES/EBU	Upon manual user selection

Remote control and monitoring

Network connection	Dual-port Ethernet Gigabit interface
LA Acoustics remote control software	LA Network Manager 2
Third-party management solutions	QSC® / SNMP / Extron® / Crestron®

Physical data

Height	2U
Weight	14.5 kg / 32 lb
Protection rating	IP2X