

LA2Xi AMPLIFIED CONTROLLER



LA2Xi is a four-channel amplified controller dedicated to permanent installations. Designed to match the power of small-format loudspeakers, LA2Xi can also be used to support larger loudspeakers at lower SPL capability (4 x 4 single-ended mode) or at full SPL capability (4 x 3, 4 x 2 or 4 x 1 bridge mode).

The streamlined and elegant 1U front panel hides a powerful DSP engine with features for loudspeaker management, protection and monitoring as well as a comprehensive set of tools for system adjustment and calibration. In addition to analog and AES/EBU, LA2Xi integrates AVB signal inputs with Milan seamless network redundancy. The optional LA2Xi I/O-CON offers an alternative connectivity solution based on fast-locking Neutrik® connectors widely used in professional audio applications. Four GPIO and a 24 V DC backup power for the DSP card offer external control and improved reliability. The flexible LA2Xi is ideal for background music systems in leisure venues, distributed fills, studio monitors and private auditorium systems.

SPECIFICATIONS

Amplification and power supply					
Output power, all channels loaded	4 channels at 4 Ω	4 channels at 8 Ω	4 channels at 16 Ω	2 channels at 8 Ω	1 channel at 4 Ω
Peak output power 12 dB Crest Factor, Sine burst, 1 kHz, 2 ms	710 W	370 W	190 W	1400 W	2750 W
Output power 200 ms, Sine burst, 1 kHz, < 1 % THD	640 W	360 W	190 W	1260 W	2550 W
Amplification class	High efficiency class D				
Power supply model	Universal Switched Mode Power Supply (SMPS) with Power Factor Correction (PFC)				
External DSP backup voltage input	24 V DC / 0.5 A on 2-point terminal block				
Mains rating	100 V - 240 V ~ ±10%, 50-60 Hz				
Audio specifications					
Frequency response (20 Hz - 20 kHz, 8 Ω load, 60 W output power)	± 0.25 dB				
Distortion THD+N (20 Hz - 20 kHz, 8 Ω load, 60 W output power)	< 0.1%				
Output dynamic range (20 Hz - 20 kHz, 8 Ω, A-weighted, Digital input)	> 113 dB				
Noise level (20 Hz - 20 kHz, 8 Ω, A-weighted, Digital input)	< -77 dBV				
DSP					
Digital Signal Processor (DSP)	Dual SHARC 32-bit, floating point, 96 kHz sampling rate				
I/O routing	4 x 4 routing and summation				
Per output channel	Built-in EQ station with 8 IIR, 4 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 Output delay from 0 to 1000 ms				
Technologies					
Loudspeaker Management	L-DRIVE advanced system protection (excursion, temperature and over-voltage)				
Circuits protection					
Mains and power supply	Over and under voltage / over temperature / overcurrent / inrush current protection				
Power outputs	Over current limiting / DC / short circuit / over temperature				
Inputs / Outputs					
AVB input with support of Milan seamless dual networking	4 channels 48kHz / 96 kHz from 1 stream of up to 8 channels				
AES/EBU inputs (3-point terminal blocks shared with analog A & C)	4 channels (2 x AES/EBU, 44.1 - 192 kHz sampling rate) With active link outputs and bypass relay on 3-point terminal blocks				
Analog inputs (3-point terminal blocks shared with AES/EBU A & C)	4 channels				
Loudspeaker output	2 female 4-point terminal blocks				
Additional option: LA2Xi I/O-CON	Rear mounted connector panel which adds 6 Neutrik® XLR and 2 speakON™ connectors				
Control and monitoring					
Network connection	Dual-port Ethernet Gigabit interface etherCON™ I/O				
General Purpose Inputs / Outputs (GPIO)	4 GPIO, isolated optocoupler inputs, isolated relay contacts				
Third-party control solutions	Q-SYS® / Crestron® / Control4® / Savant® / HTTP API				
Operating conditions					
Temperature	Room temperature from 0° C / 32° F to +50° C / 122° F				
Physical data					
Dimensions W x H x D	483 x 44.45 (1U) x 265 mm / 19 x 1.75 (1U) x 10.4 in				
Weight	4.4 kg / 9.7 lb				

