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, LA2Xi integrates AVB signal inputs with Milan seamless network redundancy. 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					
Amplification class	High-efficiency class D				
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
Power supply model	Universal Switched Mode Power Supply (SMPS) with Power Factor Correction (PFC)				
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 - 10 kHz, 8 Ω load, 60 W output power)	< 0.1%				
Output dynamic range (20 Hz - 20 kHz, 8 Ω, A-weigthed, Digital input)	> 113 dB				
Noise level (20 Hz - 20 kHz, 8 Ω, A-weighted, Digital input)	< - 78 dBV				
DSP					
Digital Signal Processor (DSP)	Gen.4 Dual SHARC 32-bit, floating point, 96 kHz sampling rate				
I/O routing	4x4 routing and summation 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 advanced system protection (excursion, temperature and over-voltage)				
	Output delay from 0 to 1000 ms				
Circuits protection					
Mains and power supply	Over and under voltage / over temperature / overcurrent (fuse protection, and inrush current protection)				
Power outputs	Overcurrent / DC / short circuit / over temperature				
Inputs / Outputs					
Analog input	4 channels on 4 male 3-point terminal blocks with passive links				
AES / EBU input	4 channels (2 x AES3) on 2 male 3-points terminal blocks (44.1 - 192 kHz sampling rate) With active link and bypass relay				
AVB input with support of Milan seamless dual networking	4 channels 48 kHz / 96 kHz from 1 stream of up to 8 channels				
Loudspeaker output	2 female 4-point terminal blocks				
Remote control and monitoring					
Network connection	Dual-port Ethernet Gigabit interface				
General Purpose Inputs / Outputs (GPIO)	4 GPIO, isolated optocoupler inputs, isolated relays contacts				
External DSP backup voltage input	24 V DC / 0.5 A on 2-point terminal block				
Third-party management solutions	QSC® / SNMP / Extron® / Crestron®				
Operating conditions					
Temperature	Room temperature from -5° C / 23° F to +50° C / 122° F				
Physical data					
Dimensions W x H x D	483 x 44.45 x 265 mm / 19 x 1.75 x 10.4 in				
Weight	4.4 kg / 9.7 lb