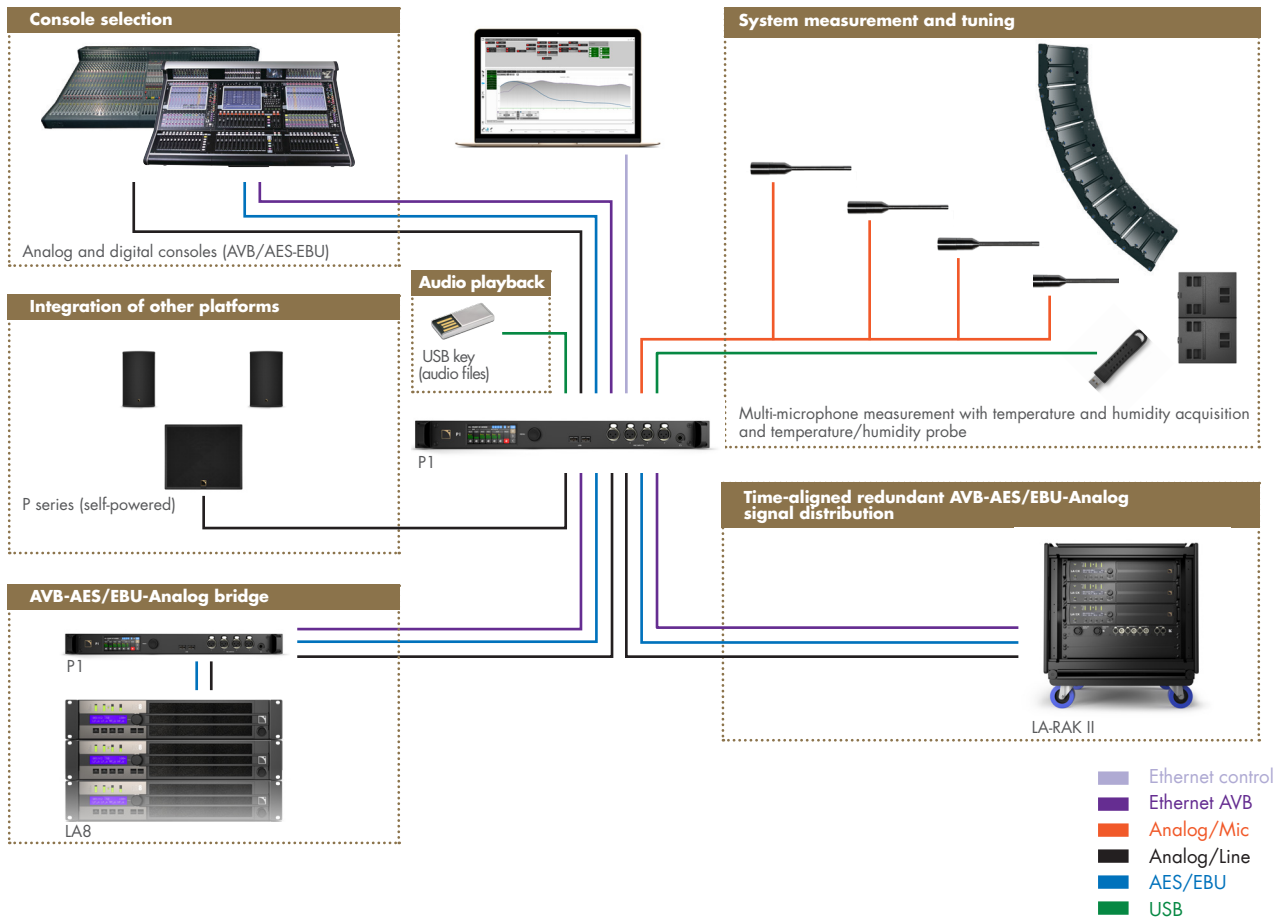


APPLICATIONS



SPECIFICATIONS

General	
Mains rating	100 V - 240 V (±10%), 50-60 Hz
Operating temperature	0 °C / 32 °F to 50 °C / 122 °F
Network audio I/O	
Standards	AVB, IEEE 1722, IEEE 1722.1
Number of input/output streams	2/2
Supported stream formats	IEC 61883-6 AM824, AAF PCM32
Supported sampling frequencies	48 or 96 kHz
Supported channel counts (input stream or output stream)	1 to 8
Channel selection	Up to 8 channels
Analog line inputs	
Number of line inputs	4
Input impedance	22 kΩ balanced
Max. input level	+22 dBu
Frequency response	±0.1 dB (10 Hz - 20 kHz)
A/D conversion	Operating at 32-bit/96 kHz
Input dynamic range	125 dB (-60 dBFS, A-weighted 20 kHz bandwidth)
Distortion THD+N ratio	0.0005%, 1 kHz, 12 dBu (10 dB below max), 20 kHz bandwidth
Channel separation	> 120 dB (at 1 kHz)
Analog line outputs	
Line output impedance	100 Ω balanced
Max. output level	+22 dBu
Frequency response	±0.1 dB (10 Hz - 20 kHz, load > 600 Ω)
Output dynamic range	125 dB (-60 dBFS, A-weighted, 20 kHz bandwidth)
Distortion THD+N ratio	0.0005%, 1 kHz, 0 dBFS, 20 kHz bandwidth
Channel separation	>120 dB (at 20Hz - 20kHz)

Analog mic/line inputs	
Number of mic inputs	4
Input impedance	2.4 k Ω balanced
Max. input level	+22 dBu at 0 dB gain
A/D conversion	Operating at 24-bit/96 kHz
Frequency response	± 0.15 dB (20 Hz - 20 kHz, at 0 dB gain)
Input dynamic range	118 dB (-60 dBFS, A-weighted, 20 KHz bandwidth, @ 0 dB preamp gain)
Gain range	0 dB to +60 dB by steps of 3 dB
Highpass filter	40 Hz, 12 dB octave (2nd order)
Phantom power	+48 V (10 mA max per channel)
Distortion THD+N ratio	0.0007%, 1 kHz, 12 dBu (10 dB below max), 20 kHz bandwidth, at 0 dB gain
Headphones	
Minimum load	32 Ω
Distortion THD+N ratio	0.004%, 1 kHz, -10 dBFS, 20 kHz A-weighted at 600 Ω load
AES/EBU inputs	
Number of inputs	2 (4 audio channels)
Standard	AES/EBU (AES3) or electrical S/PDIF (IEC 60958 Type II)
Supported sampling frequencies (Fs) and word length	44.1, 48, 88.2, 96, 176.4 or 192 kHz at 16, 18, 20 or 24 bits
AES/EBU inputs Sample Rate Converter (SRC)	
Sample rate conversion	Operating at 24-bit/96 kHz
Dynamic range	140 dB
Distortion THD+N	< -120 dBfs
Bandpass ripple	± 0.05 dB (20 Hz - 40 kHz, 96 kHz)
AES/EBU outputs	
Number of outputs	2 (4 audio channels)
Standard	AES/EBU (AES3) or electrical S/PDIF (IEC 60958 Type II)
Sampling frequency (Fs) and word length	96 kHz at 24 bits
Signal generator	
Signal types	Sine wave, sine bursts, 20 Hz - 20 kHz sweep, white noise and pink noise
Peak level	From -75 to 0 dBFS by 0.1 dB steps
Media player	
Supported file formats	.wav, .flac, .m4a, .caf, .aif, .aiff
Supported audio formats	PCM, FLAC, ALAC, from 44.1 kHz to 192 kHz, from 16 bits to 24 bits, mono or stereo
Stereo output	Operating at 24-bit/96 kHz, with automatic high quality SRC if Fs \neq 96 kHz
GPIO	
Input/Output	1 isolated, floating 1 referenced to chassis ground
Latency	
Input to output pass thru propagation delay	0.5 ms from analog or AES/EBU input to any analog or AES/EBU output
DSP propagation delay	0.37 ms
Time-aligned redundant audio distribution to LA4X/LA12X/P1	Always enabled for AES/EBU and analog chains, and time-aligned to AVB upon user selection
Remote control	
Network connection	Dual-port Ethernet Gigabit interface
L-Acoustics remote control software	LA Network Manager
Physical data	
Height	1U
Weight	3.7 kg / 8.2 lb
Protection rating	IP3x

