



LA7.16i is a 16-channel amplified controller dedicated to permanent installations. It integrates L-SMART power management technology to dynamically match the real-time needs of the loudspeaker system being driven. LA7.16i is efficiently dimensioned for multichannel applications, distributed systems, or line sources for the finest discretization.

Its streamlined and elegant 2U chassis hides a powerful DSP engine with features for loudspeaker management, system protection, and monitoring as well as a comprehensive set of tools for system adjustment and calibration. The Milan-certified LA7.16i supports AVB or AES67 input modes with seamless network redundancy, in addition to AES/EBU and analog connections. Three GPIO and a 24 V DC backup power for the DSP card offer external control and increased reliability.

SPECIFICATIONS

amplification and power supply			
utput power, all channels loaded	16 channels at 4 Ω	16 channels at 8 Ω	16 channels at 16 Ω
Peak output power 12 dB Crest Factor, sine burst, 1 kHz, 2 ms	1100 W	1300 W	700 W
Output power, CEA-2006 / 490A, sine burst, 1 kHz, 20 ms, < 1 % THD	1000 W	920 W	580 W
Amplification class	High efficiency class D		
ower supply model	Universal Switched Mode Power Supply (SMPS) with Power Factor Correction (PFC)		
xternal DSP backup voltage input	24 V DC (+/- 15%) 0.8 A		
Nains rating	100 V - 240 V ~ ±10%, 50-60 Hz		
audio specifications			
requency response (20 Hz - 20 kHz, 8 Ω load, 60 W output power)	± 0.05 dB		
istortion THD+N (20 Hz - 20 kHz, 8 Ω load, 60 W output power)	< 0.1%		
Dutput dynamic range (20 Hz - 20 kHz, 8 Ω, A-weigthed, Digital input)	> 119 dB		
Noise level (20 Hz - 20 kHz, 8 Ω, A-weigthed, Digital input)	<-79 dBV		
OSP STATE OF THE S			
Pigital Signal Processor (DSP)	Gen.5 Dual SHARC 32-bit, floating point, 96 kHz sampling rate		
O routing	16 x 16 routing and summation matrix		
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		
echnologies			
oudspeaker Management	L-DRIVE advanced system protection (excursion, temperature and over-voltage)		
ower Management	L-SMART adaptive power management		
Circuits protection			
Nains and power supply	Over and under voltage / over temperature / overcurrent / inrush current protection		
ower outputs	Over current limiting / DC / short circuit / over temperature		
nputs / Outputs			
VB input with support of Milan seamless dual networking	16 channels 48 kHz / 96 kHz from 16 streams of up to 8 channels		
Iternative network protocol	AES67: 16 channels 48 kHz from 16 streams of up to 8 channels (configured using Web UI)		
ES/EBU input (shared connectors with Analog)	2 channels (1 x AES/EBU, 44.1 - 192 kHz sampling rate) With active link and bypass relay		
analog input (shared connectors with AES/EBU)	1 channel, link output		
oudspeaker output	8 female 4-point terminal blocks		
Control and monitoring			
Network connection	Dual-port Ethernet Gigabit interface etherCON™ I/O		
General Purpose Inputs / Outputs (GPIO)	3 GPIO, isolated optocoupler inputs, isolated relays contacts		
hird-party control solutions	Q-SYS® / Crestron®/ HTTP API		
Operating conditions			
emperature	Room temperature from -5° C / 23° F to +50° C / 122° F		
Physical data			
Trysical data			
Vimensions W x H x D	483 x 88 (2U) x 411 mm / 19 x 3	1.5 (2U) x 16.2 in	



