16D NETWORK AUDIO CONVERTER





LC16D is a multichannel converter that bridges MADI and AES/EBU legacy digital formats bidirectionally with a Milan-AVB network. Supporting up to 128 Milan-AVB inputs and outputs simultaneously, LC16D offers dynamic mapping of

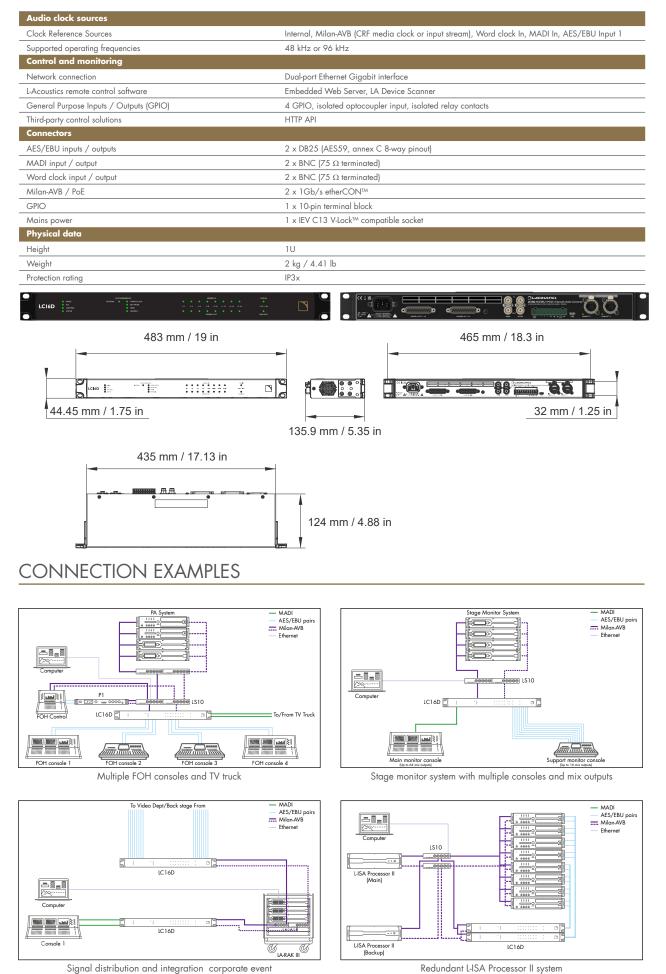
channels, and comprehensive synchronization options, with remote control via a simple to use embedded web interface. Flexible power options and seamless Milan-AVB network audio connections deliver robust redundancy features as standard, all housed in a compact and rugged 1RU chassis.

Up to 16 AES/EBU inputs and outputs can be connected using standard DB25 connectors. Asynchronous sample rate converters (ASRC) are implemented on each AES/EBU input. A pair of BNC connectors provide access to MADI. At a sampling rate of 96 kHz, 32 input and 32 output channels are supported, and up to 64 at 48 kHz. Used together, up to 80 input sources and 80 output destinations can be connected and dynamically mapped to and from a redundant Milan-AVB network. The comprehensive clocking options facilitate the selection of a reference from any of six different sources, which is then presented to all outputs, enabling clock distribution across a system. Up to three levels of power redundancy are available using a combination of the internal PSU and the dual, PoE-supporting, Ethernet ports.

SPECIFICATIONS

PRELIMINAR

General	
Mains rating	100 V - 240 V (±10%), 50-60 Hz
Power redundancy	1 x AC mains PSU
	2 x Power over Ethernet (class 3 PD, compatible with IEEE802.3at-2009 PSE)
Power consumption	8W (typical/idle), 12 W (max)
Operating temperature	-5 °C / 23 °F to 50 °C / 122 °F
Network audio I/O	
Standards	Milan-AVB (IEEE 1722, IEEE 1722.1)
Number of input/output streams	16/16
Supported channel counts (input stream or output stream)	1 to 8
Channels per Stream	Up to 8
Supported stream formats	Milan Base Format (IEEE 1722.1 AAF PCM32)
Supported sampling frequencies	48 or 96 kHz
Media Clock input	1 Milan CRF Media Clock stream
Media Clock output	1 Milan CRF Media Clock stream
AES/EBU inputs	
Number of inputs	8 (16 audio channels)
Standard	AES/EBU (AES3) or electrical S/PDIF (IEC 6095 Type II)
Asynchronous Sample Rate Converters (ASRC)	8 (can be disabled individually)
Supported sampling frequencies (fx) and word length	44.1 to 192 kHz at 16, 18, 20, or 24 bits
Default AVB output mapping	Streams 1-2
AES/EBU outputs	
Number of outputs	8 (16 audio channels)
Standard	AES/EBU (AES3) or electrical S/PDIF (IEC 60958 Type II)
Sampling frequency (Fs) and word length	48 kHz or 96 kHz at 24 bits
Default AVB input mapping	Streams 1-2
MADI inputs	
Number of inputs	64 channels at 48 kHz
	32 channels at 96 kHz
Default AVB output mapping	Streams 3-10 (48 kHz) or Streams 3-6 (96 kHz)
MADI outputs	
Number of outputs	64 channels at 48 kHz
	32 channels at 96 kHz
Default AVB input mapping	Streams 3-10 (48 kHz) or Streams 3-6 (96 kHz)
Word clock	
Input Frequency	48 kHz or 96 kHz
Output Frequency	48 kHz or 96 kHz



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