LC 16D network audio converter





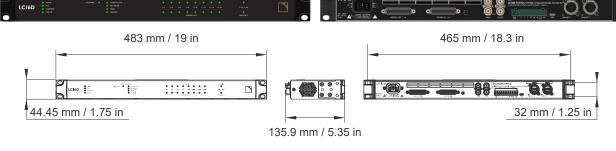
LC16D is a multichannel converter that bridges MADI and AES/EBU legacy digital formats bidirectionally with a Milan-AVB network. Supporting up to 128 Milan-AVB inputs and outputs simultaneously, LC16D offers dynamic mapping of

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.

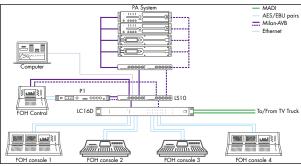
SPECIFICATIONS

| 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) |
| Ower consumption | 8W (typical/idle), 12 W (max) |
| Operating temperature | -5 °C / 23 °F to 50 °C / 122 °F |
| Network audio I/O | |
| Standards Standards | Milan-AVB (IEEE 1722) |
| 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 AAF PCM32) |
| Supported sampling frequencies | 48 or 96 kHz |
| Media Clock input | 1 Milan CRF Media Clock stream |
| Nedia 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 | |
| nput Frequency | 48 kHz or 96 kHz |
| Dutput Frequency | 48 kHz or 96 kHz |

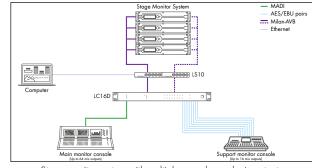




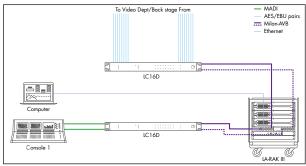
CONNECTION EXAMPLES



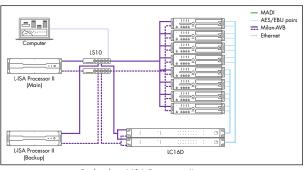
Multiple FOH consoles and TV truck



Stage monitor system with multiple consoles and mix outputs



Signal distribution and integration corporate event



Redundant L-ISA Processor II system