

DATA SHEET
X6P-8/8
CONVERTER UNIT
ANALOG – AES/EBU
INTERFACE DEVICE

Product Features

- 16 channel analog-AES/EBU converter unit
- Full integration into Optocore network by DD32(E) or PTP32E
- 8 XLR analog mic/line inputs and 8 XLR line outputs
- Mic pre-amps with selectable gain (0 dB to +69 dB in 1 dB steps) and 48 V phantom power
- 2 analog post-preamp split outputs
- 1 digital AES/EBU I/O and 1 digital AES/EBU split port
- Word clock IN / OUT and THRU
- Embedded internal word clock for stand-alone applications
- 1 USB and 1 RS232 port for configuration and control
- Full remote access with OPTOCORE CONTROL software
- Upgradeable internal logic
- Comprehensive status control via LED banks on the front

The X6P-8/8 is part of the X6 series, the converter units to transform analog signals to AES/EBU and vice versa. It is equipped with eight XLR microphone or line level inputs and eight XLR line level outputs. The X6P-8/8 can function in all kinds of applications where the A/D and D/A conversion is needed. In cooperation with Optocore's DD32(E) or PTP32E they are seamlessly integrated into the OPTOCORE® OPTICAL DIGITAL NETWORK SYSTEM. All parameters of the converters can be remote controlled and monitored with the same software application as all the other Optocore devices, the OPTOCORE CONTROL software.

The X6 units facilitate a high flexibility to provide the number of analog inputs and outputs required at different positions in temporary or permanent applications. The high quality of the preamps, A/D- and D/A converters make the X6 units ideal for the incorporation into audio systems even if no Optocore network is established. They provide a wide dynamic range with negligible distortion and extremely low noise.

The eight XLR inputs of the X6P-8/8 include microphone pre-amp, phantom power and selectable gains in 1 dB steps from 0 dB to +66 dB. Eight XLR output channels with a selectable channel level of 0 dBFS and -10 dBFS round off the device.

All analog inputs are available at the rear panel after pre-amplification.

Two analog split outputs per channel can be sent to other devices such as an analog monitor consol or recording unit.

With two AES/EBU ports the digital signals are split as well. The second port allows the transmission of the analog inputs together with the incoming AES/EBU signals to other devices with digital interfaces.

The Word Clock IN / OUT and THRU enable the synchronization of the units to an external source and are used to pass on the word clock from one unit to the next. For stand-alone applications the devices are equipped with an internal word clock.

Up to four X6-units can be connected to the four principle ports of one DD32(E) or PTP32E enabling the exchange of 32 AES/EBU signals (64 channels) and control data. The ports include two control data channels. Without the necessity of any external data cable the X6-units can be operated and controlled via the Optocore network with OPTOCORE CONTROL. For the control in stand-alone applications the USB or RS232 port on the front panel can be used.

The FPGA (field programmable gate array) based concept of the internal logic circuitry permits updating of the hardware by the use of the units remote ports, ensuring a continual state-of-the-art device.

