

ARCHITECTS & ENGINEERS SPECIFICATION for the X6R-TP unit

The device shall be a 16-channel converter unit to transform analog signals to digital and digital to analog and be part of synchronous network over Cat5 infrastructure and be an extension for a synchronous fibre optic network. It shall be equipped with two audio boards with phoenix connectors each enabling connection for eight balanced signals. The boards might be chosen from the range of microphone inputs, line inputs, line outputs or dual microphone preamp board (16 channels in total with eight physical inputs). The device shall function in applications where the A/D and D/A conversion is needed. The microphone inputs shall include high quality pre-amp, phantom power and selectable gains in 1 dB steps from 0 dB to +70 dB, line inputs shall include gains adjustment from the -9 dB, -4 dB, 0 dB or +10dB fixed values. The outputs shall include the adjustment of the channel level in four steps: +4 dBFS, 0 dBFS, -4 dBFS -10 dBFS. Device shall be equipped with two AES/EBU DB25 ports providing additional 16 AES3 pairs (32 analog channels) configurable in pairs of 4 as inputs or outputs. Four RS485 interfaces shall exchange control data such as RS422, RS485, DMX and MIDI. The module shall offer word clock input and output. Redundant power supply and safeguards against malfunctions shall be provided through a dual power supply unit with automatic switchover. The digital I/O device shall be equipped with LAN port and two Synchronous Audio Network ports with Ethernet. Configuration and control shall be possible using the USB, LAN or RS232 ports. Control software shall operate on a PC, offering full remote access and upgradeable internal logic. LED banks on the front of the device shall provide comprehensive status control. The module shall be compliant with the CE/FCC conformity and shall be used in E1, E2, E3, E4, or E5 environments according to the harmonized European standards EN55103-1 and EN55103-2. The device shall be compliant with EN60065 - Safety requirements.

The digital I/O for synchronous network over Cat5 module shall be the Optocore® X6P-TP unit.