

AMX0.2CN: A&E specifications

The Cobranet™ interface shall provide 2 analog Line level output channels that can be routed/mixed from up to 8 Cobranet™ input channels (network audio streams) on any of 8 Cobranet Bundle Receivers. The Cobranet™ interface shall provide the following analog features...

- Dual unbalanced RCA outputs (mono source) with a -8dBu (nominal)/+12dBu (peak), 10k ohm output stage for each channel
- Single balanced (true differential topology) XLR3 (M) output with a +4dBu (nominal)/+22dBu (peak), 600 ohm output stage for each channel
- XLR3 (M) connector shall be 'latchless' to minimize mechanical damage to the cobranet interface.
- Each XLR3 (M) output shall be the same mono source as the RCA outputs
- Each output channel gain shall be adjustable over 12dB in 3 steps, ie, -8dBu (nominal)/+12dBu (peak), -6dBu nominal/+18dbu (peak) and +4dBu (nominal)/+22dBu (peak) via a front panel mounted slide switch. The slide switch shall be recessed to avoid damage and use a 3 position LED display to indicate gain position.

The Cobranet™ interface shall provide a 100baseTx Cobranet™ port, allowing for any 2 of 8 simultaneous audio streams to be sourced from the network and routed to the 2 analog outputs. The Cobranet™ audio traffic shall be completely configurable via SNMP, including the following...

- Bundle address and priority
- Bundle channel count
- Cobranet™ latency of 1.33, 2.67 and 5.33milliseconds.
- Cobranet sample rate of 48kHz or 96kHz.

The Cobranet interface shall provide 115MIPS of digital signal processing (DSP), where the cobranet input channels shall route through an 8 channel Automatic Microphone Mixer, through a 2 tap 100mSec delay and router and to a pair of processing side chains. Each side chain shall provide an 8 band parametric equalizer, high pass, low pass filters and a 'look ahead' peak compressor. The Automatic Microphone Mixer shall link over Cobranet to other AMX0.2CN Cobranet™ Interfaces and provide a 12x4, 16x6, 20x8 and 24x10 AutoMixer matrix using 2-3-4-5 interfaces respectively.

The Cobranet™ interface shall be wall or floor mounted and available in tooled options to suit either USA "Decora®", EU "Schuko®" or UK "Euro" styles of decorative faceplate (to match the interior design or architectural requirements). The Cobranet™ interface rear PCB assembly shall be no more than 85mm wide, 70mm high and 45mm deep to suit standard 2 gang US J-Box, or equivalent 2 gang Schuko® or UK backboxes.

The Cobranet™ interface shall be powered from an Ethernet switch using Power over Ethernet (PoE) technology.