STAGE8.8: A&E specifications

The Cobranet™ interface shall provide 8 analog Mic/line input channels and 8 line level output channels, simultaneously with 8 Cobranet™ input channels and 16 Cobranet™ output channels in an enclosure with front panel mounting male and female 3 pin XLR's suitable for operation as an audio "stagebox"/ The XLR connectors shall have no locking pin, so that an accidental pull on a cable will remove the connector from the interface rather than damage the cable and/or interface.

The Cobranet™ interface shall provide the following analog features…

- Each analog input circuit shall employ a fully balanced true differential topology designed to maximize CMRR across all possible input connection methods.
- The input and output connectivity shall be designed to meet AES48 standards for immunity to hum, buzz and SCIN.
- Each input stage shall have a 10kohm input impedance and accommodate signals of up to +24dBu peak, where each input channel gain shall be adjustable from 0dB to +60dB, ie -56dBu (nominal)/+36dbu (peak) to +4dBu (nominal)+24dbu (peak) via a front panel mounted rotary potentiometer
- Each input channel shall have a front panel mounted switch that shall apply +24volts DC to the input in a 'phantom' power connection.
- Each input channel shall have front panel mounted signal (-20dB threshold) and peak LED's.
- Each output channel shall have 600ohm impedance and accommodate signals of up to +24dBu peak.

The Cobranet™ interface shall provide a front panel indicator for power.

The Cobranet™ interface shall provide a 100baseTx Cobranet™ port, allowing for 16 simultaneous audio streams to the network on 4 bundle transmitters and 8 simultaneous audio streams from the network on 8 bundle receivers. The Cobranet™ audio traffic shall be completely configurable via SNMP, including the following…

- Bundle address and priority
- Bundle Unicast, Multicast and Multi-Unicast settings
- Bundle channel count from 0 to 8 channels
- Cobranet™ latency of 1.33, 2.67 and 5.33milliseconds.

The Cobranet™ interface switched mode power supply shall be capable of operating at any incoming supply from 86 to 265 volts and from 47Hz to 63Hz.

The Cobranet™ interface shall be less than 3.5" to allow installation into a 4" dry wall. The Cobranet™ interface shall be ½ rack with to allow two interfaces to be mounted side by side in a 19" rack.

The Cobranet™ interface shall ship with rack mount and wall/floor mount accessories.