ION 8.8

A&E
SPECIFICATIONS

The Cobranet™ interface shall provide 8 analog Mic/line input channels and 8 line level output channels, simultaneously with 16 Cobranet™ input channels and 16 Cobranet™ output channels. The Cobranet™ interface shall allow any of the 4 analog and 16 Cobranet™ input channels to be routed to any of the 4 analog and 16 Cobranet™ output channels.

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 16 simultaneous audio streams from the network on 8 bundle receivers. The Cobranet port shall use a Neutrik Ethercon connector to ensure a secure connection. 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 5.33 milliseconds.

The Cobranet™ interface shall provide >100MIPS of DSP with the following algorithms...

- 25 x 32 router for all I/O
- Test tone generator
- Ducker on each output channel
- HPF and LPF on each output channel
- 8 band parametric equalizer on each output channel
- Compressor on each output channel

The Cobranet™ interface shall provide a 100baseTx Ethernet control port. The Ethernet port shall use a Neutrik Ethercon connector to ensure a secure connection. The Ethernet port shall provide control and monitoring of all Cobranet™ and DSP parameters via TELNET.

The Cobranet™ interface shall provide a Multidrop RS485 serial port for Cobranet™ bridging.

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 1U (44.5mm) high and 19" wide suitable for mounting in a professional 19" rack.