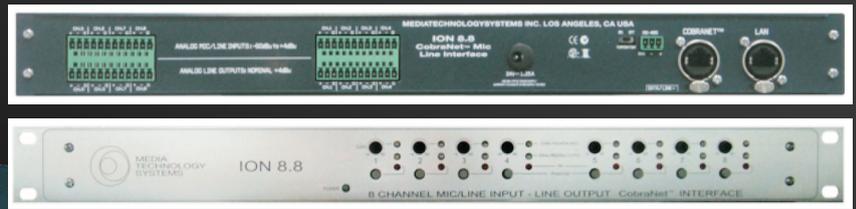


ION4.4 & ION8.8

CobraNet® Interfaces



The Media Technology Systems ION4.4 is a CobraNet® 1/2 width 1U rack mount configuration with 4 analog mic/line inputs and 4 analog outputs. In addition, the chassis can be vertically mounted on a wall, riser or upside-down under a table. This mounting flexibility allows the installer to convert the analog audio to a LAN data stream in remote locations.

The remote mounting configuration enables conversion from analog audio as early as possible. This eliminates long lines of analog audio cable between the audio source and the nearest control room rack. The solution also eliminates complex rack patch bays, as patching can easily be achieved by changing the network address of each ION wall interface. This features also provides a simple room combining solution.

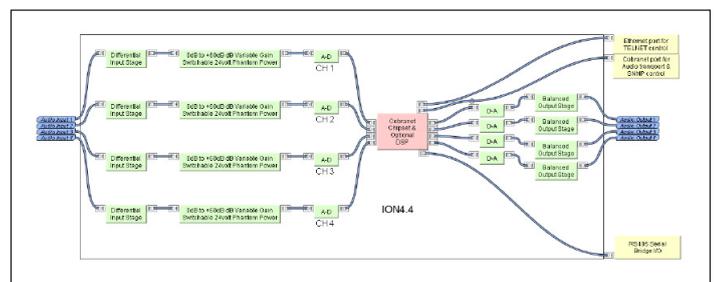
The Media Technology Systems ION8.8 is a CobraNet® full rack width 1U rack mount configuration with 8 analog mic/line inputs and 8 analog outputs

The ION4.4/ION8.8 input section converts 4/8 channels (respectively) of analog Mic/Line audio input into an CobraNet® audio stream. The Euroblock input connectors accept a +4dBu nominal max/+24dBu peak balanced audio signal and has a 60dB gain potentiometer. In addition front panel switches are provided to apply +24volts phantom power to each input.

The ION4.4 and ION8.8 both provide bicolor LEDs showing input and output signals (-20dB green, -2dB red).

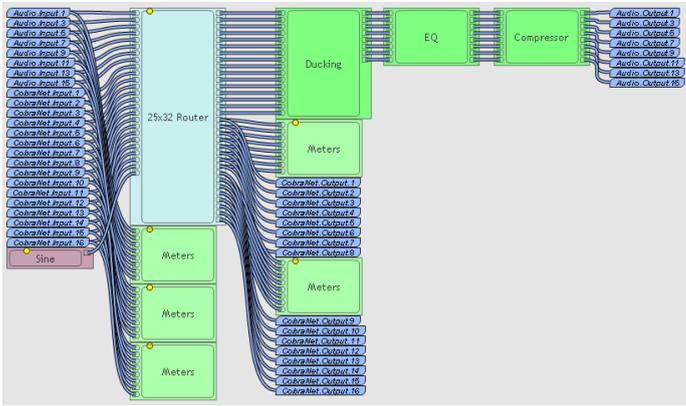
The ION4.4/8.8 output section converts 4/8 channels (respectively) of incoming CobraNet® data stream back into analog audio signals. The Euroblock outputs are +4dBu nominal/+24dBu peak.

The ION4.4/ION8.8 can bridge incoming RS485 serial data on to the network where the ION4.4/ION8.8 acts as a conduit to other devices on the CobraNet® network. The serial bridge feature of CobraNet® allows local RS485 data to be sent across the network to other capable devices. This feature is useful for extending control data to remote locations. The receiving endpoints can be configured using the ION4.4/ION8.8 Control software.



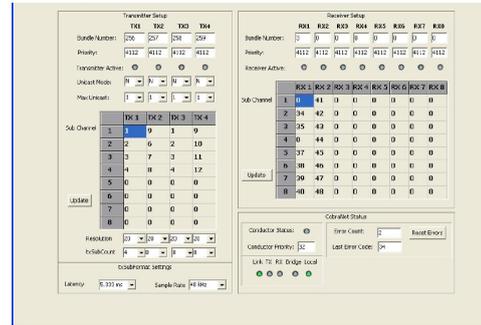
System block diagram of the ION4.4 (ION8.8 is identical, except for 4 more analog inputs and 4 more analog outputs)

The ION4.4/ION8.8 also provides 100MIPS of embedded DSP processing for simple routing and processing, with Ducking, EQ filters, HP/LP filters and Compressors on each analog output channel (see "MTS GUI"-the ion series configuration software for details). In addition the ION4.4/ION8.8 provides a 20x20/24x24 (respectively) matrix Input/Output router that can receive up to 16 incoming network audio streams and transmit up to 16 outgoing network audio streams.



Internal DSP schematic for the ION8.8 showing the I/O router and local analog output processing (ION4.4 is identical, except the I/O router has 4 less analog inputs and 4 less analog outputs).

The ION4.4 & ION8.8 both offer SNMP control of all parameters via the CobraNet LAN port and TELNET control of all parameters via the Ethernet LAN port. The MTS GUI can be used to set up 8 presets, including a power up preset.



MTS GUI: DSP Configuration software screen shot showing CobraNet settings page.

KEY FEATURES

- ION 4.4 is a 1/2 rack width 1U high CobraNet® interface offering Riser, Wall, & Under-table mounting options.
- ION8.8 is a full rack width 1U high CobraNet® interface
- Both ION4.4 & ION8.8 offers professional Audio signal interfacing, +4dB nominal maximum/+24dBu peak signals
- Four (ION4.4) or eight (ION8.8) Balanced 3.5mm Euroblock inputs, each with 60dB of variable Gain via the front panel potentiometers.
- Four (ION4.4) or eight (ION8.8) Balanced 3.5mm Euroblock outputs
- Switchable phantom power of +24volts on each input
- Both ION4.4 & ION8.8 have 16 input and 16 output channels from/to the network offering 20x20 (ION4.4) or 24x24 (ION8.8) local routing capability.
- 100MIPS internal DSP.
- RS485 serial bridging
- Split CobraNet audio LAN port and Ethernet control LAN ports for VLAN traffic.
- Professional standard Ethercon LAN connectors.

APPLICATIONS

- Paging/Communications projects
- Hotels/Hospitality
- Convention Centers
- Corporate Meeting rooms
- Classrooms and Lecture rooms

SPECIFICATIONS

Frequency Response

20Hz-20kHz, +/-3dB

THD

<0.1%

Input levels

+4dBu nominal: +22dBu Clip

Output level

+4dBu nominal: +22dBu Clip

Input Sensitivity

-56dBu (nominal) at maximum gain produces +4dBu (nominal). +4dBu (nominal) at minimum gain produces +4dBu (nominal)

Hum and Noise

>70dB below rated output

Power Supply

External 24volt AC supply, 12watts

Input

4k ohms balanced and RF filtered. EIN 20Hz-20kHz, less than 119dBu (+56dB gain setting)

Output

150 ohms balanced/600 ohms minimum load

Power

24volts @ 1.5 amps

Control and Monitoring

SNMP, MTSGUI, CN Discovery

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