



# STAGE8.8

CobraNet® interface



The STAGE 8.8 is a simple “no frills” 8 input, 8 output, CobraNet® “StageBox” interface that is 3U high, ½ rack wide and 3.5” deep. The STAGE8.8 offers 8 analog mic/line inputs each featuring: manual gain/trim control range of 60dB, individual channel selectable phantom power and 8 analog, +4dB line level outputs

The STAGE8.8 was designed to meet three basic connectivity needs...

- Specifiers and Installers requested a CobraNet® StageBox to reduce the quantity of cables used in a staging area and meeting environment. For example, a STAGE8.8 installed under the head table in a Banquet room would provide connectivity for 4-6 head table microphones, a podium microphone and a laptop audio input(s). Additionally, the STAGE8.8 outputs can drive 2-3 powered stage monitors, or playback system. The only connection to the wall/control room/mixing console would be a single UTP cable. The STAGE8.8 is powered through the UTP cable, using a custom available 24Volt injector.
- Manual control of Gain (0dB to +60dB) and Phantom power (+24volt) ensures that the STAGE8.8 will work with any brand of CobraNet compliant DSP processor. No need to implement a special remote control protocol.

#### Key Benefits

- **Value:** The Stage8.8 ‘value engineered’ design gives the most used and required features yet with exceptional performance, economy and simplicity of operation.
- **Flexible mounting:** The STAGE8.8 can be installed out of sight, under tables and podiums, mounted in a rack or in a wall or stage floor. Enabling conversion from analog audio as early as possible and eliminating long runs of costly analog audio cable between the source and the control room rack whilst maintaining quality and reducing noise.
- **Simple to Configure:** Just set the front panel gain and phantom power, give the device a network address and configuration is complete.
- **Works with any brand of CobraNet® DSP:** The manual controls for phantom power and gain avoids any need to integrate remote control features with a 3rd party brand CobraNet® DSP processor.
- **Pro-Audio compliant:** Meets audio performance and signal interfacing needs for demanding professional and consumer audio applications.

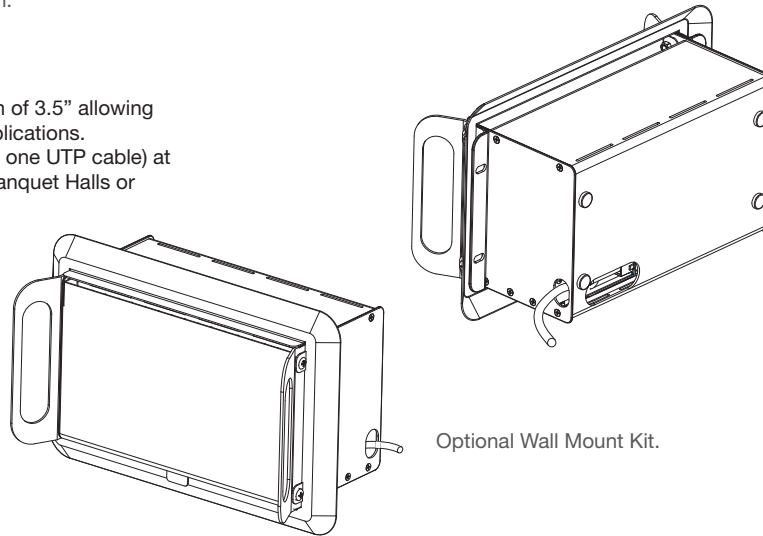
Mounting:

- The STAGE8.8 front panel dimensions (3U high by half a rack width) are designed so 2 units to be mounted side by side in a rack or portable flight case, providing 16 inputs and 16 outputs at the front of the flight-case and a simple CobraNet® connection at the rear.



“double-wide” rackmount option.

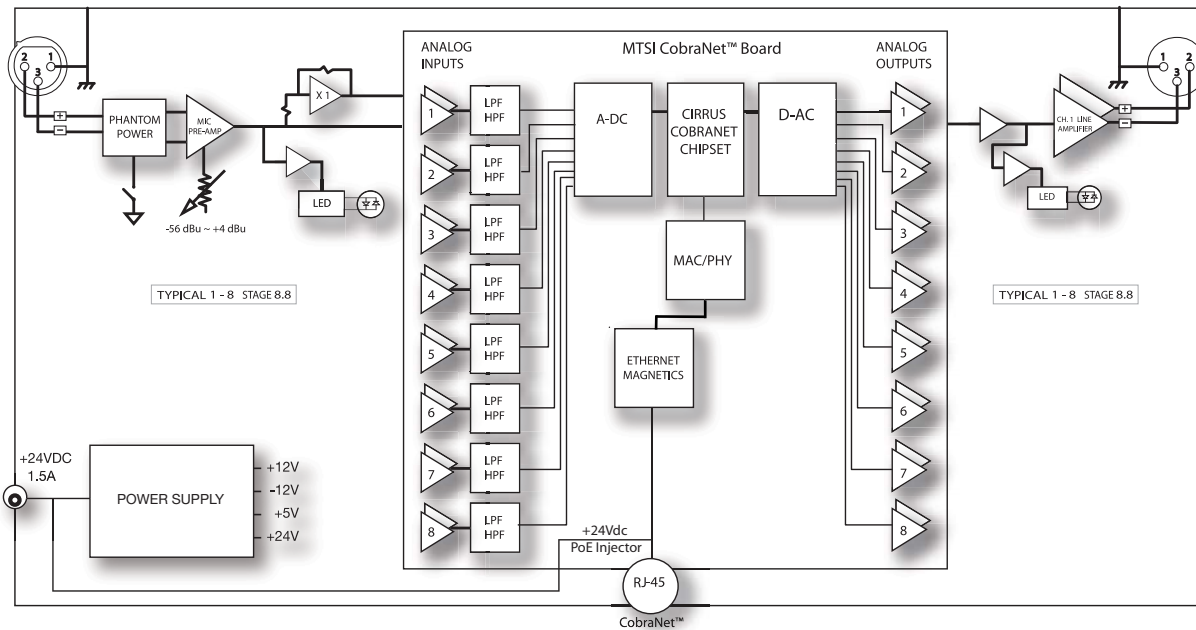
- The Stage8.8 is designed with an overall depth of 3.5” allowing easy installation in standard stud wall/drywall applications. This option provides 8 inputs and 8 outputs (from one UTP cable) at various wall and floor positions in Auditoriums, Banquet Halls or Conference Rooms.



Optional Wall Mount Kit.

Physical

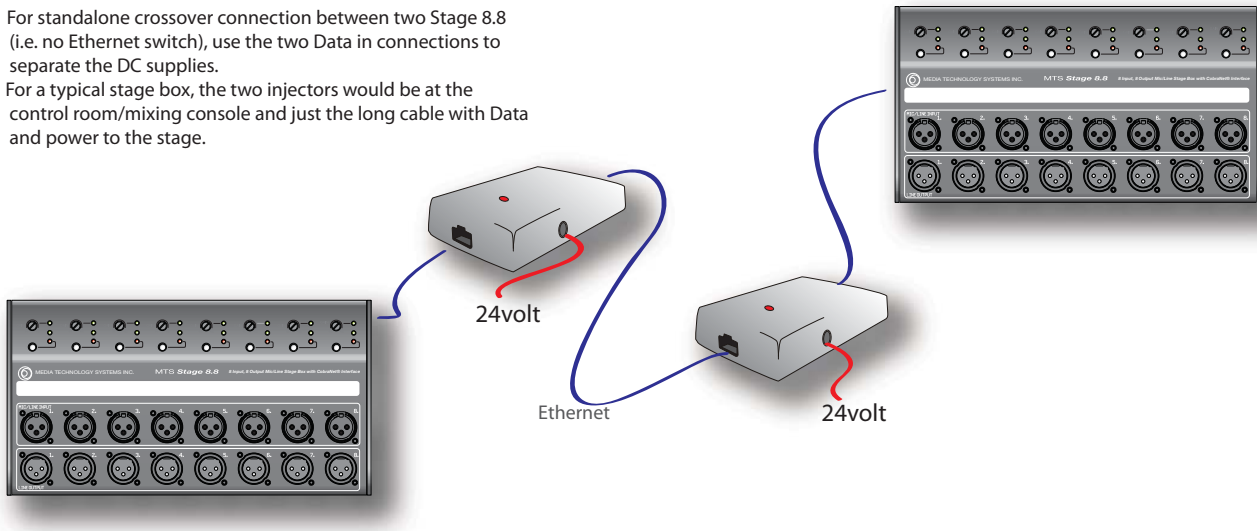
- The front panel (above) offers manual control of microphone gain (0-60dB) and phantom power (+24volts) for each channel. The LED's show phantom power, Input and Output level (-20dbu-green, -3dBu-red). The Power LED (blue) shows presence of the external +24volt DC 'injector' supply.
- A rear panel recess houses the CobraNet network port. The CobraNet port allows for Audio streaming and Control via SNMP and 24volts from the PoE injector.
- The XLR input and output connectors accept a +4dBu nominal, max/+24dBu peak balanced audio signal.



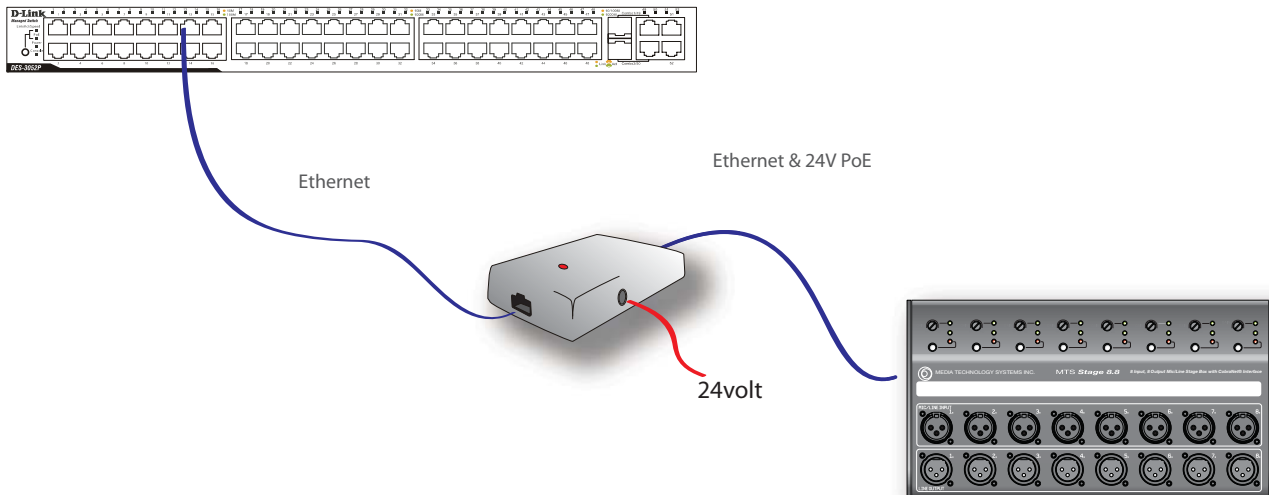
System block diagram of the STAGE8.8

## Power:

- For standalone crossover connection between two Stage 8.8 (i.e. no Ethernet switch), use the two Data in connections to separate the DC supplies. For a typical stage box, the two injectors would be at the control room/mixing console and just the long cable with Data and power to the stage.



- The CobraNet network port also carries the 24 volt power on the unused 4 wires of the 100BaseTx connection. The Stage8.8 ships with a 24volt PSU and PoE injector (note the Stage8.8 is a custom PoE and not IEEE802.3af). The injector connects as follows...



## Inputs/Outputs

- The STAGE8.8 ships with the 8 analog inputs linked to CobraNet® Transmitter sub channels 1-8 and CobraNet® Receiver sub channels 33-40 are linked to the 8 analog outputs. This allows the STAGE8.8 to be used 'out of the box' by merely setting up Transmitter and Receiver ('Bundle') network addresses.
- However, the STAGE8.8 has the capability of transmitting 16 CobraNet® channels and receiving 16 CobraNet® channels, so a more sophisticated routing can be configured using the free utility CobraNet Discovery (CNDISCO) from Cirrus Logic.

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## Specifications

### STAGE8.8:

- ½ rack width, 3U high CobraNet® StageBox/interface
- 8 Analog Mic/Line Inputs to 8 Cobranet Channel Outputs
- 8 CobraNet® Channel Inputs to 8 Analog Line level Outputs

Frequency response: 20Hz-20kHz, +/-3dB

THD: <1%

Input level: +4dBu nominal: +24dBu Clip

Output level: +4dBu nominal: +24dBu Clip

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

Maximum gain: 60dB

Input: 2kohms balanced and RF filtered. EIN 20Hz-20kHz, less than  
119dBu (+60dB gain setting)

Output: 150 ohms balanced, 600ohm minimum load

Hum and Noise: >70dB below rated output

### Connectors:

- Analog Input: Balanced XLR Female connectors
- Analog Output: Balanced XLR Male connectors
- Network: RJ45 for CobraNet® audio LAN port
- Power: +24volt DC @1amp

Phantom Power: Front panel switchable phantom power of +24volts on each input

### Indicators:

- Front panel bicolor LED's for input and outputs with -20dbu (green) and -3dBu (red) trigger levels.
- Front panel red LED on each channel to indicate Phantom Power.
- Front panel Blue LED to indicate presence of 24volt DC supply.

Power Supply: External 24volt AC supply, 24watts and PoE injector

Control and Monitoring: SNMP

Control Software: CN Discovery (CNDISCO)

Size: 220mm (w) x 134mm (h) x 88.9mm (d).

Weight: 4.5kg (5.0 kg Packed).

CobraNet® is a trade mark of Cirrus Logic

## Applications

- Hotels/Hospitality
- Convention Centers
- Houses of Worship
- Theme Parks

