ATTEROTECH®

DIALOGBOX 4/2

COBRANET® MIC/LINE AUTOMIXER

The DialogBox 4/2 CobraNet® Audio Interface is a cost effective 4-in / 2-out mic/line automixer. The DialogBox 4/2 features four balanced inputs, with both gain and +24V phantom power selectable via software on a per channel basis, and two line level balanced outputs. All outputs can contain any mix of local and network audio inputs. Logic inputs provide the capability to selectively mute various combinations of DialogBox 4/2 inputs and outputs. The DialogBox 4/2 uses a gain sharing automix algorithm for seamless and robust auto-mixing.

FEATURES AND BENEFITS

- Full CobraNet® connectivity in a half-rack format
- Fully balanced inputs and outputs with high quality depluggable connectors
- +24V Phantom Power, software selectable per channel
- Input gain selection for line (0dB), electret mics (+25dB), and dynamic mics (+40dB)
- Output gain is software selectable at 0dB or +10dB
- DSP audio signal processing on inputs and outputs
- Gain sharing automixing for easy setup and robust automixing performance
- PoE powered from a standard PoE network switch, or by external +12VDC source
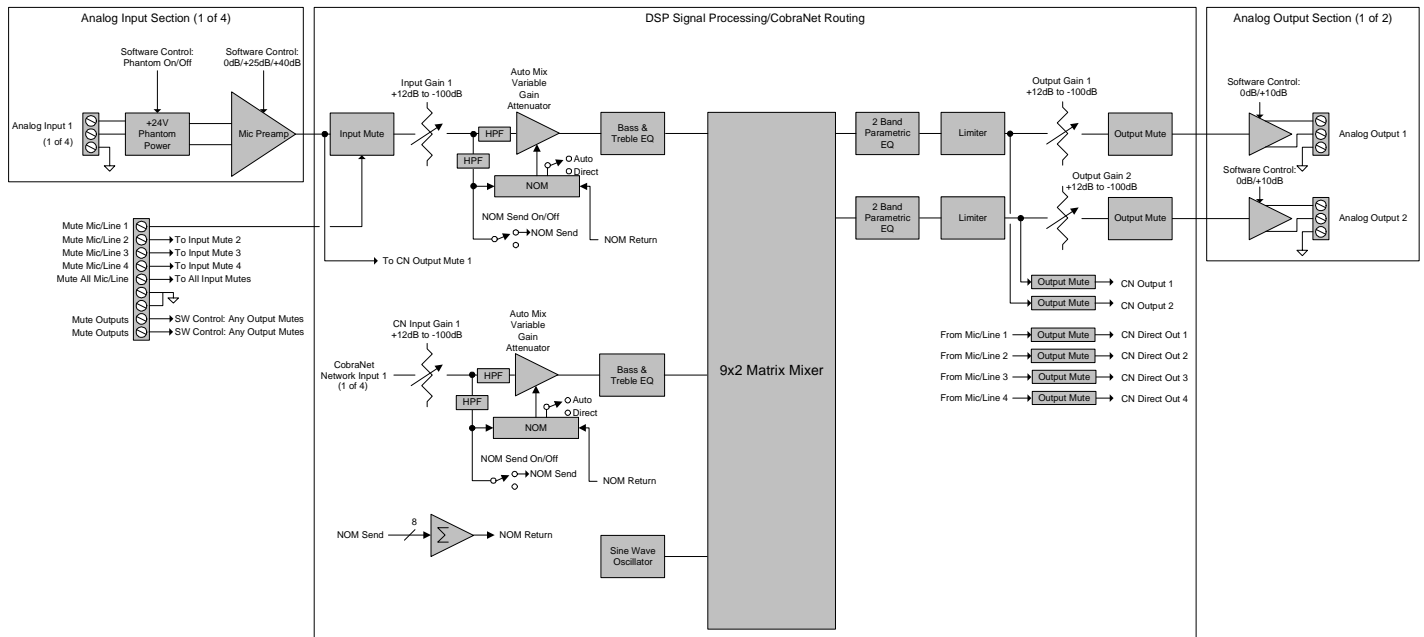
APPLICATIONS

- Courtrooms, conference rooms
- Adding additional inputs or outputs to an existing CobraNet® system
- Complete audio mixing solution for small to medium systems

ABOUT ATTERO TECH

Attero Tech is a leading provider of CobraNet® audio interfaces. These innovative networked audio products make it cost effective for audio installations to include CobraNet®. Attero Tech is headquartered in Fort Wayne, Indiana. Contact us at:

260.496.9668   www.atterotech.com

ATTEROTECH®

Analog Input Section (1 of 4)

Software Control: Phantom On/Off
Software Control: 0dB/+25dB/+40dB

Analog Input 1 (1 of 4) → +24V Phantom Power → Mic Preamp

Mute Mic/Line 1 → To Input Mute 2
Mute Mic/Line 2 → To Input Mute 3
Mute Mic/Line 3 → To Input Mute 4
Mute Mic/Line 4 → To All Input Mutes
Mute All Mic/Line

Mute Outputs → SW Control: Any Output Mutes
Mute Outputs → SW Control: Any Output Mutes

DSP Signal Processing/CobraNet Routing

Input Gain 1 +12dB to -100dB
Input Mute → HPF → HPF → Auto Mix Variable Gain Attenuator → Bass & Treble EQ
Auto / Direct
NOM
NOM Send On/Off → NOM Send
NOM Return
To CN Output Mute 1

CN Input Gain 1 +12dB to -100dB
CobraNet Network Input 1 (1 of 4) → HPF → HPF → Auto Mix Variable Gain Attenuator → Bass & Treble EQ
Auto / Direct
NOM
NOM Send On/Off → NOM Send
NOM Return

NOM Send → 8 → Σ → NOM Return

Sine Wave Oscillator

9x2 Matrix Mixer

2 Band Parametric EQ → Limiter
2 Band Parametric EQ → Limiter

Output Gain 1 +12dB to -100dB → Output Mute
Output Gain 2 +12dB to -100dB → Output Mute

Output Mute → CN Output 1
Output Mute → CN Output 2

From Mic/Line 1 → Output Mute → CN Direct Out 1
From Mic/Line 2 → Output Mute → CN Direct Out 2
From Mic/Line 3 → Output Mute → CN Direct Out 3
From Mic/Line 4 → Output Mute → CN Direct Out 4

Analog Output Section (1 of 2)

Output Gain 1 +12dB to -100dB
Software Control: 0dB/+10dB → Analog Output 1
Software Control: 0dB/+10dB → Analog Output 2

SPECIFICATIONS

Mic/Line Input Type: Balanced and RF Filtered 3-pin depluggable

Phantom Power: +24V, software selectable

Input Impedance: > 1.8kΩ at any gain setting

Mic Gain: 0dB, +25dB, +40dB

Equivalent Input Noise: -115dBu (+40dB gain)

Maximum Input Levels: +8dBu @ 0dB gain, -16dBu @ +25dB gain, -31dBu @ +40dB gain

Output Type: Balanced with automatic muting upon loss of CobraNet signal

Output Impedance: 200Ω balanced 100Ω unbalanced

Noise: < -90dBu @ 0dB gain

Maximum Output Level: +12dBu

System THD: < 0.01% at any gain, input signal 3dB below maximum

Logic Inputs: 7 logic inputs, dry contact closure

PoE Class: Class 2 802.3af PoE PD Compliant

Power Consumption: 6W maximun

Dimensions: 1.5"H x 7.25"W x 6.5"D

Operating Temperature: 0 ºC - 40 ºC

ARCHITECTS & ENGINEERS SPECS

The CobraNet interface unit shall provide four mic/line analog inputs on rear panel depluggable 3-pin connectors. Software selectable gains of 0dB, +25dB, +40dB, and software selectable +24V phantom power shall be provided. The internal analog to digital signal conversion shall be performed at 24-bit resolution with a sampling frequency of 48kHz. Two channels of balanced line-level outputs shall be provided on the rear panel with depluggable 3-pin connectors. Outputs shall have software selectable gains of 0dB and +10dB. Seven (7) logic inputs shall provide capability to selectively mute various combinations of inputs and outputs. Interface power shall be provided by either an 802.3af compliant PoE network switch or a +12VDC external power source.

The CobraNet interface shall provide DSP capabilities for independent channel gain, equalization, and gain sharing automatic mixing on the four local inputs and the four CobraNet inputs. Each local output channel shall have DSP parametric EQ and output limiting capabilities. The DSP shall also provide a fully configurable 9-input, 2-output matrix mixer with an input from a configurable sine wave generator.

The CobraNet interface shall be compatible with the Attero Tech Control Center software for flexible control and monitoring in system applications. The CobraNet interface shall be compliant with RoHS directive.

The CobraNet interface shall be the Attero Tech DialogBox 4/2.