VISSONIC

Professional Audio/Visual Manufacturer

Broadcast and television engineering、Multimedia conference rooms、Distance learning、Command and control centers

Fully Digital Audio Processor

High-speed feedback suppression algorithm to improve sound quality

Dante | Audiolink | AM | AFC | ANS | ANC

Full-function matrix mixing

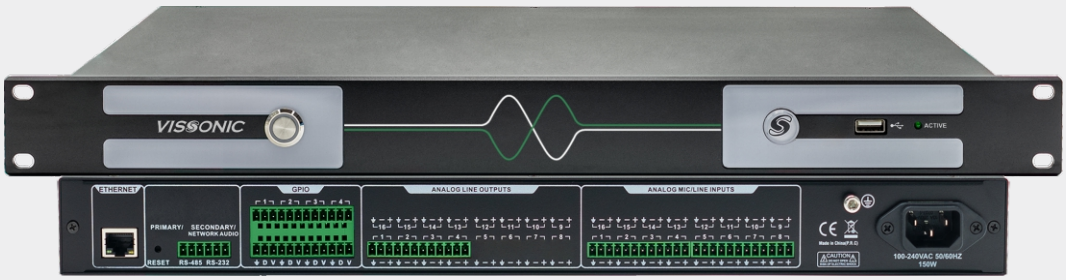
Audiolink Network Audio

Dante Network Audio

USB for PC audio integration

Uncompressed low-latency digital signal

Features



VIS-DAP84 8x4 Audio Processor

Features

- 17 input and 13 output audio processing channels.
- Supports 20x13 matrix mixing functionality.
- Up to 8x8 Audiolink network audio or 8x8 Dante network audio supported.
- Provides 8 channels of uncompressed, low-latency digital audio for Audiolink conference controller, expansion controller, amplifiers, and POE speakers.
- USB interface for seamless handling of PC audio sources and video conference communication.

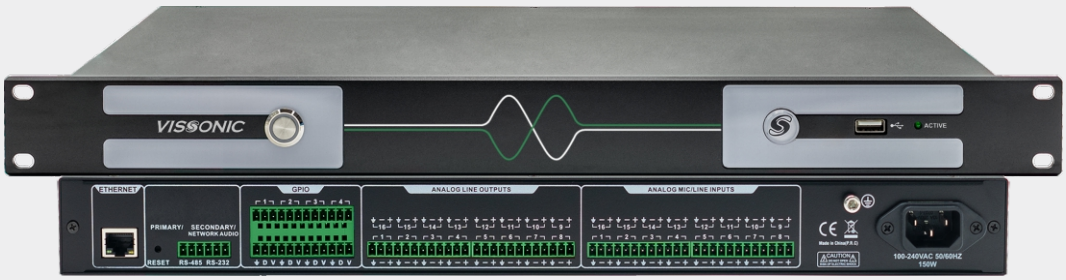
Functions

- Provides 17 input channels and 13 output channels, offering signal routing and management for various audio system applications.
- Inputs: 8 balanced microphone/line inputs, 1 auxiliary input for USB, and 8 optional digital inputs via Audiolink or Dante.
- Outputs: 4 balanced outputs, 1 auxiliary output for USB or recording players, and 8 optional digital outputs via Audiolink or Dante.
- 8x8 Audiolink audio network module (optional), supports CLEACON system software control, or 8x8 Dante audio network module (optional), supports Dante Domain Manager and AES67.
- Audiolink inputs/outputs are provided for the Audiolink-equipped conference controller, extension controller, amplifiers, and POE speakers, offering 8 channels of uncompressed, low-latency digital audio.
- A/D and D/A conversion: 120dB dynamic range, supports up to 48kHz sample rate.
- Processor: High-speed DSP processing chip, ADI 450MHz.
- Input source selection: Switch between balanced microphones or line inputs using Phoenix connectors.
- Floating-point DSP functionality: 64-bit floating-point DSP engine supports multi-channel synchronous audio processing without degradation of audio quality. Its ultra-low and constant latency ensures audio-video synchronization, regardless of the number of channels or processes.
- Copy and paste functionality for processing modules: The design and setup of the audio system can be accelerated with cut-paste commands, allowing for quick duplication of parameter settings between similar modules or groups in a single processing module or graphical user interface.

Functions

- Each input channel integrates preamp, signal generator, expander, de-esser, compressor, 12-band parametric equalizer, automatic gain control, AM automatic mixing, AFC adaptive feedback cancellation, ANC noise suppression, AEC echo cancellation, and audio matrix functions.
- Each output channel includes speaker management (31-band parametric equalizer, delay, crossover, high-pass/low-pass filters, limiter).
- Compatibility: Supports multi-platform management, including Windows, iOS, and Android systems.
- Network interface: Ethernet multifunctional data transmission and control port, supporting real-time management of single or multiple devices.
- Software interface: Provides an intuitive, clear, and easy-to-understand graphical control interface, ensuring users can quickly get started and enjoy a smooth operational experience.
- Expandable USB interface: Not only supports device upgrade functionality but also enables USB recording and broadcasting, as well as 1x1 USB soundcard functionality.
- Full-featured matrix mixing function: In addition to mixing and automatic mixing, it also features mixing component control.
- Built-in automatic camera tracking function.
- Equipped with bidirectional RS232, RS485 interfaces, standard Ethernet control interface, and 8-channel programmable GPIO interface (supports custom input/output).
- Supports tablet control interface.
- Can store up to 16 scene presets.
- Operating system compatibility: The graphical control interface is suitable for multiple environments, including XP/Windows 7, 8, 10, etc.

Features



VIS-DAP88 8x8 Audio Processor

Features

- 17 input and 17 output audio processing channels.
- Supports 20x17 matrix mixing functionality.
- Up to 8x8 Audiolink network audio or 8x8 Dante network audio supported.
- Provides 8 channels of uncompressed, low-latency digital audio for Audiolink conference controller, expansion controller, amplifiers, and POE speakers.
- USB interface for seamless handling of PC audio sources and video conference communication.

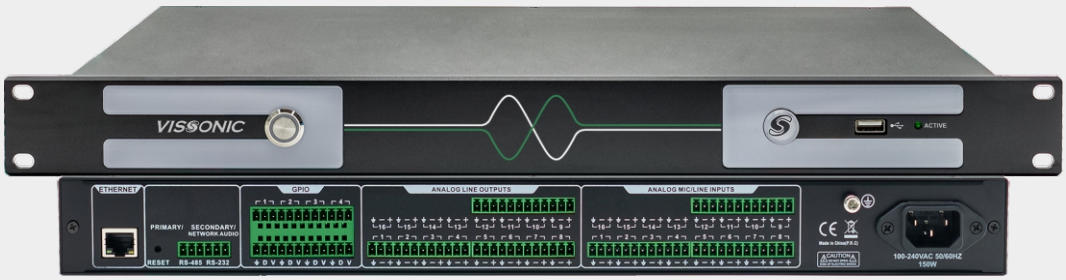
Functions

- Provides 17 input channels and 17 output channels, offering signal routing and management for various audio system applications.
- Inputs: 8 balanced microphone/line inputs, 1 auxiliary input for USB, and 8 optional digital inputs via Audiolink or Dante.
- Outputs: 8 balanced outputs, 1 auxiliary output for USB or recording players, and 8 optional digital outputs via Audiolink or Dante.
- 8x8 Audiolink audio network module (optional), supports CLEACON system software control, or 8x8 Dante audio network module (optional), supports Dante Domain Manager and AES67.
- Audiolink inputs/outputs are provided for the Audiolink-equipped conference controller, extension controller, amplifiers, and POE speakers, offering 8 channels of uncompressed, low-latency digital audio.
- A/D and D/A conversion: 120dB dynamic range, supports up to 48kHz sample rate.
- Processor: High-speed DSP processing chip, ADI 450MHz.
- Input source selection: Switch between balanced microphones or line inputs using Phoenix connectors.
- Floating-point DSP functionality: 64-bit floating-point DSP engine supports multi-channel synchronous audio processing without degradation of audio quality. Its ultra-low and constant latency ensures audio-video synchronization, regardless of the number of channels or processes.
- Copy and paste functionality for processing modules: The design and setup of the audio system can be accelerated with cut-paste commands, allowing for quick duplication of parameter settings between similar modules or groups in a single processing module or graphical user interface.

Functions

- Each input channel integrates preamp, signal generator, expander, de-esser, compressor, 12-band parametric equalizer, automatic gain control, AM automatic mixing, AFC adaptive feedback cancellation, ANC noise suppression, AEC echo cancellation, and audio matrix functions.
- Each output channel includes speaker management (31-band parametric equalizer, delay, crossover, high-pass/low-pass filters, limiter).
- Compatibility: Supports multi-platform management, including Windows, iOS, and Android systems.
- Network interface: Ethernet multifunctional data transmission and control port, supporting real-time management of single or multiple devices.
- Software interface: Provides an intuitive, clear, and easy-to-understand graphical control interface, ensuring users can quickly get started and enjoy a smooth operational experience.
- Expandable USB interface: Not only supports device upgrade functionality but also enables USB recording and broadcasting, as well as 1x1 USB soundcard functionality.
- Full-featured matrix mixing function: In addition to mixing and automatic mixing, it also features mixing component control.
- Built-in automatic camera tracking function.
- Equipped with bidirectional RS232, RS485 interfaces, standard Ethernet control interface, and 8-channel programmable GPIO interface (supports custom input/output).
- Supports tablet control interface.
- Can store up to 16 scene presets.
- Operating system compatibility: The graphical control interface is suitable for multiple environments, including XP/Windows 7, 8, 10, etc.

Features



VIS-DAP1212 12x12 Audio Processor

Features

- 29 input and 29 output audio processing channels.
- Supports 32x29 matrix mixing functionality.
- Up to 16x16 Audiolink network audio or 16x16 Dante network audio supported.
- Provides 16 channels of uncompressed, low-latency digital audio for Audiolink conference controller, expansion controller, amplifiers, and POE speakers.
- USB interface for seamless handling of PC audio sources and video conference communication.

Functions

- Provides 29 input channels and 29 output channels, offering signal routing and management for various audio system applications.
- Inputs: 12 balanced microphone/line inputs, 1 auxiliary input for USB, and 16 optional digital inputs via Audiolink or Dante.
- Outputs: 12 balanced outputs, 1 auxiliary output for USB or recording players, and 16 optional digital outputs via Audiolink or Dante.
- 16x16 Audiolink audio network module (optional), supports CLEACON system software control, or 16x16 Dante audio network module (optional), supports Dante Domain Manager and AES67.
- Audiolink inputs/outputs are provided for the Audiolink-equipped conference controller, extension controller, amplifiers, and POE speakers, offering 8 channels of uncompressed, low-latency digital audio.
- A/D and D/A conversion: 120dB dynamic range, supports up to 48kHz sample rate.
- Processor: High-speed DSP processing chip, ADI 450MHz.
- Input source selection: Switch between balanced microphones or line inputs using Phoenix connectors.
- Floating-point DSP functionality: 64-bit floating-point DSP engine supports multi-channel synchronous audio processing without degradation of audio quality. Its ultra-low and constant latency ensures audio-video synchronization, regardless of the number of channels or processes.
- Copy and paste functionality for processing modules: The design and setup of the audio system can be accelerated with cut-paste commands, allowing for quick duplication of parameter settings between similar modules or groups in a single processing module or graphical user interface.

Functions

- Each input channel integrates preamp, signal generator, expander, de-esser, compressor, 12-band parametric equalizer, automatic gain control, AM automatic mixing, AFC adaptive feedback cancellation, ANC noise suppression, AEC echo cancellation, and audio matrix functions.
- Each output channel includes speaker management (31-band parametric equalizer, delay, crossover, high-pass/low-pass filters, limiter).
- Compatibility: Supports multi-platform management, including Windows, iOS, and Android systems.
- Network interface: Ethernet multifunctional data transmission and control port, supporting real-time management of single or multiple devices.
- Software interface: Provides an intuitive, clear, and easy-to-understand graphical control interface, ensuring users can quickly get started and enjoy a smooth operational experience.
- Expandable USB interface: Not only supports device upgrade functionality but also enables USB recording and broadcasting, as well as 1x1 USB soundcard functionality.
- Full-featured matrix mixing function: In addition to mixing and automatic mixing, it also features mixing component control.
- Built-in automatic camera tracking function.
- Equipped with bidirectional RS232, RS485 interfaces, standard Ethernet control interface, and 8-channel programmable GPIO interface (supports custom input/output).
- Supports tablet control interface.
- Can store up to 16 scene presets.
- Operating system compatibility: The graphical control interface is suitable for multiple environments, including XP/Windows 7, 8, 10, etc.

Features

VIS-DAP1616 16x16 Audio Processor

Features

- 33 input and 33 output audio processing channels.
- Supports 36x33 matrix mixing functionality.
- Up to 16x16 Audiolink network audio or 16x16 Dante network audio supported.
- Provides 16 channels of uncompressed, low-latency digital audio for Audiolink conference controller, expansion controller, amplifiers, and POE speakers.
- USB interface for seamless handling of PC audio sources and video conference communication.

Functions

- Provides 33 input channels and 33 output channels, offering signal routing and management for various audio system applications.
- Inputs: 16 balanced microphone/line inputs, 1 auxiliary input for USB, and 16 optional digital inputs via Audiolink or Dante.
- Outputs: 16 balanced outputs, 1 auxiliary output for USB or recording players, and 16 optional digital outputs via Audiolink or Dante.
- 16x16 Audiolink audio network module (optional), supports CLEACON system software control, or 16x16 Dante audio network module (optional), supports Dante Domain Manager and AES67.
- Audiolink inputs/outputs are provided for the Audiolink-equipped conference controller, extension controller, amplifiers, and POE speakers, offering 8 channels of uncompressed, low-latency digital audio.
- A/D and D/A conversion: 120dB dynamic range, supports up to 48kHz sample rate.
- Processor: High-speed DSP processing chip, ADI 450MHz.
- Input source selection: Switch between balanced microphones or line inputs using Phoenix connectors.
- Floating-point DSP functionality: 64-bit floating-point DSP engine supports multi-channel synchronous audio processing without degradation of audio quality. Its ultra-low and constant latency ensures audio-video synchronization, regardless of the number of channels or processes.
- Copy and paste functionality for processing modules: The design and setup of the audio system can be accelerated with cut-paste commands, allowing for quick duplication of parameter settings between similar modules or groups in a single processing module or graphical user interface.

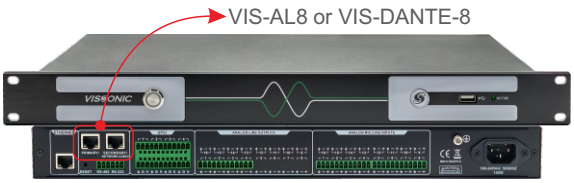
Functions

- Each input channel integrates preamp, signal generator, expander, de-esser, compressor, 12-band parametric equalizer, automatic gain control, AM automatic mixing, AFC adaptive feedback cancellation, ANC noise suppression, AEC echo cancellation, and audio matrix functions.
- Each output channel includes speaker management (31-band parametric equalizer, delay, crossover, high-pass/low-pass filters, limiter).
- Compatibility: Supports multi-platform management, including Windows, iOS, and Android systems.
- Network interface: Ethernet multifunctional data transmission and control port, supporting real-time management of single or multiple devices.
- Software interface: Provides an intuitive, clear, and easy-to-understand graphical control interface, ensuring users can quickly get started and enjoy a smooth operational experience.
- Expandable USB interface: Not only supports device upgrade functionality but also enables USB recording and broadcasting, as well as 1x1 USB soundcard functionality.
- Full-featured matrix mixing function: In addition to mixing and automatic mixing, it also features mixing component control.
- Built-in automatic camera tracking function.
- Equipped with bidirectional RS232, RS485 interfaces, standard Ethernet control interface, and 8-channel programmable GPIO interface (supports custom input/output).
- Supports tablet control interface.
- Can store up to 16 scene presets.
- Operating system compatibility: The graphical control interface is suitable for multiple environments, including XP/Windows 7, 8, 10, etc.

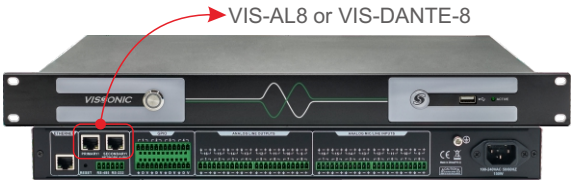
Specifications

Model	VIS-DAP84	VIS-DAP88	VIS-DAP1212	VIS-DAP1616
Analog Channels	8 Input+4 Output	8 Input+8 Output	12 Input+12 Output	16 Input+16 Output
DSP Processing	ADI 450MHz DSP			
Core Algorithms	Automatic Mixing, Feedback Suppression, Echo Cancellation, Noise Cancellation			
GPIO Interface	8 (shared between input and output)			
RS232 Interface	1			
RS485 Interface	1			
RJ45 Control Interface	1			
USB Interface	1			
DANTE or AUDIOLINK Network Interface (optional)	2			
Maximum Input Gain	48dBu			
Quantization Bit Depth	24-bit			
Sample Rate	48kHz			
Frequency Response (20~20kHz)	±0.3dB			
ADC Dynamic Range (A-weighted)	113dB			
DAC Dynamic Range (A-weighted)	113dB			
Input-to-Output Dynamic Range	113dB			
Total Harmonic Distortion + Noise	< -95dB @ 17dBu			
Noise Floor (A-weighted)	-90dBu			
Delay Storage	1.2 seconds			
Analog Input to Analog Output System Delay	3 milliseconds			
Input Impedance (Balanced)	5.4kΩ			
Output Impedance (Balanced)	600Ω			
Maximum Input Level	+24dBu			
Maximum Balanced Output Level	+18dBu			
Phantom Power (Per Input)	48V			
Input Common-Mode Rejection, 60Hz	80dB			
Channel Isolation, 1kHz	108dB			
Dimensions (mm)	483L × 260W × 44.5H (mm)			
Shipping Weight	3.5kg			

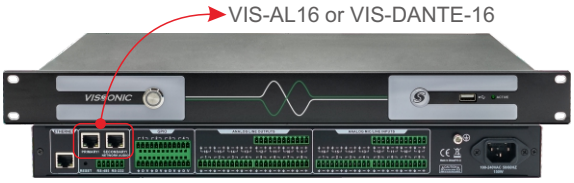
Item Modelfor Order



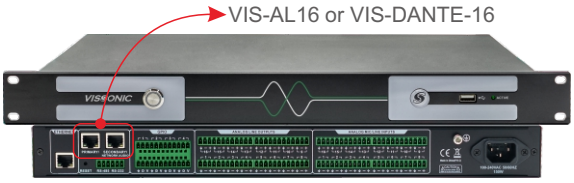
VIS-DAP84	8x4 Audio Processor
VIS-AL8	8x8 Audiolink Audio Network Module, pre-installed in the VIS-DAP84 or VIS-DAP88 processor.
VIS-AL16	16x16 Audiolink Audio Network Module, pre-installed in the VIS-DAP12 or VIS-DAP1616 processor.
VIS-DANTE-8	8x8 Dante Module pre-installed in VIS-DAP84 or VIS-DAP88, VIS-VLI700A-4/8/16, or VIS-DCP2000-D/W/R devices
VIS-DANTE-16	16x16 Dante Module pre-installed in VIS-DAP1212, VIS-DAP1616, VIS-VLI700A-4/8/16, or VIS-DCP2000-D/W/R devices



VIS-DAP88	8x8 Audio Processor
VIS-AL8	8x8 Audiolink Audio Network Module, pre-installed in the VIS-DAP84 or VIS-DAP88 processor.
VIS-AL16	16x16 Audiolink Audio Network Module, pre-installed in the VIS-DAP12 or VIS-DAP1616 processor.
VIS-DANTE-8	8x8 Dante Module pre-installed in VIS-DAP84 or VIS-DAP88, VIS-VLI700A-4/8/16, or VIS-DCP2000-D/W/R devices
VIS-DANTE-16	16x16 Dante Module pre-installed in VIS-DAP1212, VIS-DAP1616, VIS-VLI700A-4/8/16, or VIS-DCP2000-D/W/R devices

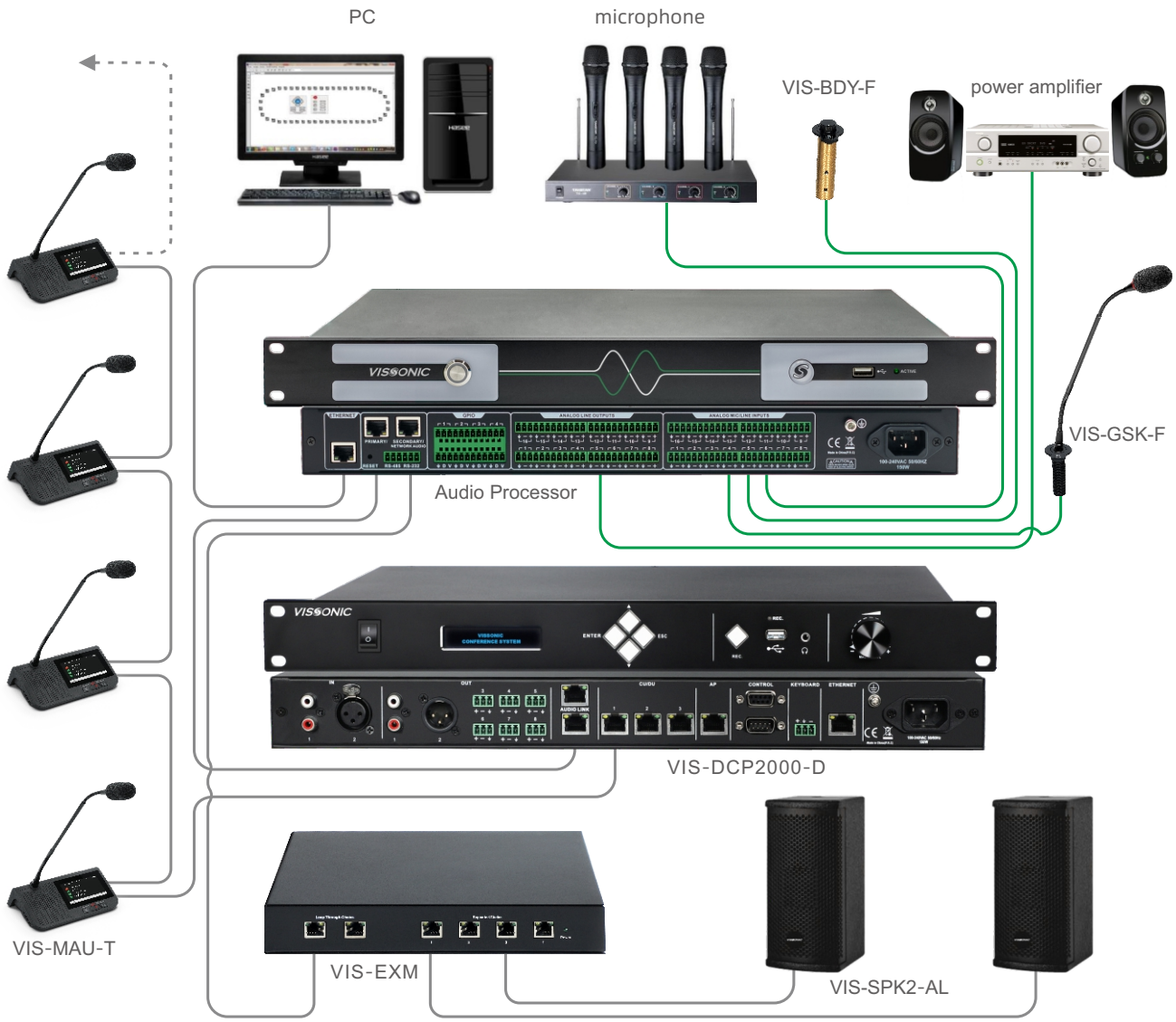


VIS-DAP1212	12x12 Audio Processor
VIS-AL8	8x8 Audiolink Audio Network Module, pre-installed in the VIS-DAP84 or VIS-DAP88 processor.
VIS-AL16	16x16 Audiolink Audio Network Module, pre-installed in the VIS-DAP12 or VIS-DAP1616 processor.
VIS-DANTE-8	8x8 Dante Module pre-installed in VIS-DAP84 or VIS-DAP88, VIS-VLI700A-4/8/16, or VIS-DCP2000-D/W/R devices
VIS-DANTE-16	16x16 Dante Module pre-installed in VIS-DAP1212, VIS-DAP1616, VIS-VLI700A-4/8/16, or VIS-DCP2000-D/W/R devices



VIS-DAP1616	16x16 Audio Processor
VIS-AL8	8x8 Audiolink Audio Network Module, pre-installed in the VIS-DAP84 or VIS-DAP88 processor.
VIS-AL16	16x16 Audiolink Audio Network Module, pre-installed in the VIS-DAP12 or VIS-DAP1616 processor.
VIS-DANTE-8	8x8 Dante Module pre-installed in VIS-DAP84 or VIS-DAP88, VIS-VLI700A-4/8/16, or VIS-DCP2000-D/W/R devices
VIS-DANTE-16	16x16 Dante Module pre-installed in VIS-DAP1212, VIS-DAP1616, VIS-VLI700A-4/8/16, or VIS-DCP2000-D/W/R devices

System Diagram



AUDIO CAT5e