DAM-1616

16x16 Digital Audio Matrix Processor



Product Features

- **Extensive Audio Inputs**: Features 16 fixed analog audio input points, connected easily and quickly via detachable European terminal blocks. Each input can be customized with audio processing modules and sequences according to different scenarios and needs, providing excellent audio flexibility and expandability.
- **Multifunctional Connectivity**: Equipped with matrix functionality, allowing users to customize output sources to meet various complex and specific audio configuration requirements. This feature enhances the product's flexibility in multi-room or multi-zone audio management applications.
- **Rich Control Interface**: Available in Traditional Chinese and English interfaces, allowing users to easily perform audio matrix switching and control parameter settings on any Windows OS computer. Supports management of up to 20 devices and simultaneous control by 8 users, facilitating efficient team collaboration and equipment management.
- **Multi-Protocol Communication Transmission**: Supports RS-232, RS-485, and UDP communication protocols, enabling integration with third-party devices such as cameras for centralized control, enhancing the convenience and efficiency of system integration.
- **Additional Audio Expansion**: Offers an optional Dante™ model (DAM-0808D), adding four sets of Dante™ input/output signals, further expanding the audio input and output capabilities.
- **Smart Audio Processing**

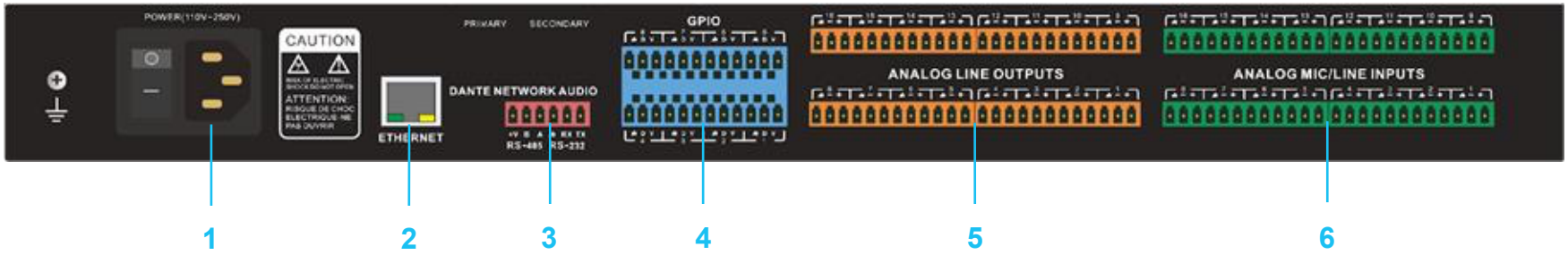
  AEC: Three adaptive echo cancellation modes.

  AFC: Reduces echo / reverb, boosts speech gain by 16dB.

  ANS: Noise reduction up to 18dB without complex databases.

  Extras: Auto-mute (**Ducker**), auto volume (**ANC**), gain-sharing auto-mix (**AM**).

Rear Panel



1. **Power**: 110-240V AC 50/60Hz with power switch.
2. **Ethernet connector**: 10/100 Base-T Ethernet connector for PC software and TCP / IP API control.
3. **RS232 + RS485 interface**: for connecting to a third-party control device.
4. **GPIO terminal**: 8-channel logic output, with 4 pairs of universal grounding pins. After being activated, the logic output will be low (0V), and the internal voltage will be higher (5V) when being not activated. You may directly light up external LED indicator. The logic output can be driven by the logic output control module in the device design. Polarity and threshold can be set in the software.
5. **OUTPUT analog output interface**: connects with amplifiers and loudspeakers.
6. **INPUT analog input interface**: connects with microphones, DVD players, etc.

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Audio	
Processor	ADI SHARC 21489 (x2)
Sampling rate	48K / 24bit
Input gain	0/10/20/30/40/43dBu
Ouput level	0/-6dB
Phantom power	48V
Frequency Response	20~20KHz ±0.5dB
Max. level	+24dBu
THD + Noise	0.003%@4dBu
Dynamic range	113dB

Audio	
Background noise (A-weighted)	-90dBu
Common mode rejection ratio @60Hz	80dB
Channel isolation @1KHz	108dB
Input impedance (Balanced)	5.4KΩ
Output impedance (Balanced)	102Ω
System Delay	<3ms

Physical Properties	
Dimensions (WDH)	482 x 260 x 45 mm
Weight	3 kg
Operating temperature	30°C / 86°F

Power Supply	
Working power	AC110 ~ 240V 5Hz ~ 60Hz
Max. power consumption	<40W

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