

## AD202E

2-CH Mic/Line In/Out Audio Processor with DSP and Dante



The AD202E supports the conversion of 2 balanced / unbalanced Line/Mic level audio inputs with selectable individual 48V Phantom power into 2 Dante outputs as well as 2 Dante audio channels into 2 balanced / unbalanced line level outputs for versatile connectivity. It also enables 4 × 4 analog and Dante matrix mixing, allowing users to flexibly route any input to the assigned output, elevating sound performance. It supports 24 bit and offers sampling rate options of 44.1k, 48k, 88.2k, and 96 kHz to meet different environment needs. With AES67 compliance, the AD202E enhances interoperability between different audio networking protocols and devices.

Designed to enhance meeting experiences, the AD202E adopts Acoustic Echo Cancellation (AEC) technology to prevent echoes in a conferencing environment and Feedback Suppressor (FBS) to automatically detect and reduce feedback. Its built-in DSP allows 24 presets and quick setting adjustment through the PC-based app Audio Wizard / ATEN VK control system via LAN / RS-232. Plus, the AD202E comes with a selectable automatic Standby Mode for energy-saving purposes, switching the unit to Standby Mode automatically when the signal level runs lower than -50 / -60 / -70 dBu for a selected duration (10 / 30 / 60 minutes).

Other highlights include the support for Dante Daisy Chaining to help simplify system infrastructure wiring and for redundancy operation via PoE to eliminate the need for additional cable installations. The AD202E's compact, half-rack size enclosure makes installation under desks or on any flat surface easy. It is perfect for on-line conferences or distance learning applications that require high quality, dynamic sound performance and intelligible audio at the far end within Dante audio networking environments.



### Features

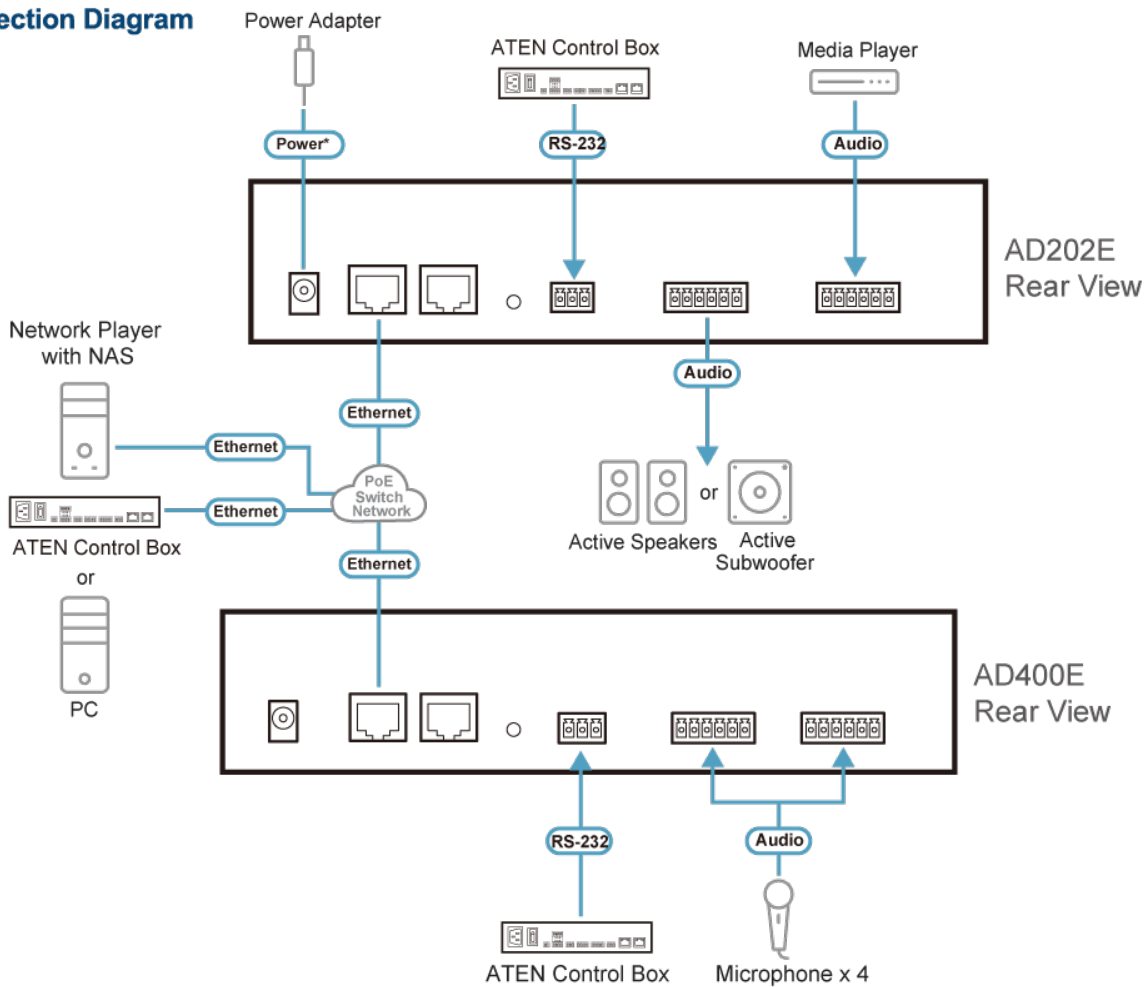
- Converts 2 balanced / unbalanced Line / Mic level audio inputs with selectable individual 48V Phantom power into 2 Dante outputs and 2 Dante audio channels into 2 balanced / unbalanced line level outputs
- Enables 4 × 4 analog and Dante matrix mixing
- Acoustic Echo Cancellation (AEC) – prevents echoes in a conferencing environment
- Feedback Suppressor (FBS) – automatically detects and reduces feedback
- AES67 compliant
- Supports 24 bit and offers sampling rate options of 44.1k, 48k, 88.2k, and 96 kHz
- Built-in DSP – allows 24 presets and speaker functionality management through PC-based app Audio Wizard / ATEN VK control system via LAN / RS-232
- Selectable automatic Standby Mode – the unit enters Standby Mode automatically when the signal level runs lower than -50 / -60 / -70 dBu for a selected duration (10 / 30 / 60 minutes)
- Supports PoE for redundancy operation and eliminating the need for additional wiring installations
- Supports Dante Daisy Chaining for simplifying system infrastructure wiring
- Compact half-rack size chassis – flexible installation inside racks and easy placement under desks or on flat surfaces

## Specifications

|                           |                                                                                                                                                                                                                                                                          |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Microphone Inputs         |                                                                                                                                                                                                                                                                          |
| Gain Range                | 0~+34dB                                                                                                                                                                                                                                                                  |
| Maximum Input Level       | -30dBu                                                                                                                                                                                                                                                                   |
| Impedance                 | 3kΩ                                                                                                                                                                                                                                                                      |
| Phantom power             | +48V, Individual Control in Each Input Channel                                                                                                                                                                                                                           |
| Line Inputs               |                                                                                                                                                                                                                                                                          |
| Gain Range                | Balanced: -8~+4dB<br>Unbalanced: -8~+10dB                                                                                                                                                                                                                                |
| Maximum Input Level       | +24dBu, Nominal Input Level: +4dBu                                                                                                                                                                                                                                       |
| Impedance                 | Balanced: 20kΩ<br>Unbalanced: 10kΩ                                                                                                                                                                                                                                       |
| Line Outputs              |                                                                                                                                                                                                                                                                          |
| Maximum output Level      | +24dBu, Nominal Input Level: +4dBu                                                                                                                                                                                                                                       |
| Impedance                 | 600Ω                                                                                                                                                                                                                                                                     |
| System Specification      |                                                                                                                                                                                                                                                                          |
| Distortion                | THD+N: <0.01%, 1kHz, Max. Gain                                                                                                                                                                                                                                           |
| Frequency Response        | 20~20kHz, +/-0.5dB                                                                                                                                                                                                                                                       |
| Audio Sampling            | 24-bit, 44.1k/48k/88.2k/96kHz                                                                                                                                                                                                                                            |
| Crosstalk                 | <-95dB                                                                                                                                                                                                                                                                   |
| Control                   |                                                                                                                                                                                                                                                                          |
| RS-232                    | 3-pin, 3.5mm, Terminal Block                                                                                                                                                                                                                                             |
| Ethernet                  | RJ45                                                                                                                                                                                                                                                                     |
| Power Consumption         | DC12V:5.17W:24BTU/h<br>POE:6.11W:29BTU/h<br><br>Note:<br>● The measurement in Watts indicates the typical power consumption of the device with no external loading.<br>● The measurement in BTU/h indicates the power consumption of the device when it is fully loaded. |
| Power                     |                                                                                                                                                                                                                                                                          |
| Power over Ethernet (PoE) | Class 0, IEEE802.3af                                                                                                                                                                                                                                                     |
| Compliance                |                                                                                                                                                                                                                                                                          |
| Certification             | FCC, CE, UKCA                                                                                                                                                                                                                                                            |
| Environmental             |                                                                                                                                                                                                                                                                          |
| Operating Temperature     | 0~40°C                                                                                                                                                                                                                                                                   |
| Humidity                  | 0-80% RH, Non-Condensing                                                                                                                                                                                                                                                 |
| Storage Temperature       | -20~60°C                                                                                                                                                                                                                                                                 |
| Physical Properties       |                                                                                                                                                                                                                                                                          |
| Weight                    | 0.92 kg ( 2.04 lb )                                                                                                                                                                                                                                                      |
| Housing                   | Metal                                                                                                                                                                                                                                                                    |
| Dimensions (L x W x H)    | 20.00 x 4.40 x 15.40 cm<br>(7.87 x 1.73 x 6.06 in.)                                                                                                                                                                                                                      |
| Note                      | External power adapter is sold separately.                                                                                                                                                                                                                               |
| Note                      | For some of rack mount products, please note that the standard physical dimensions of WxDxH are expressed using a LxWxH format.                                                                                                                                          |

## Diagram

## ▶ Connection Diagram



Note: The power adapter is sold separately and it supplies redundant power when PoE becomes unavailable. Please contact your ATEN dealer or go to ATEN website for available accessories and product information.

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