

AD400E

4-ch Mic/Line Pre-AMP with DSP and Dante Output



The AD400E converts 4 channels of balanced / unbalanced microphone / line-level audio signals into Dante packets to work with Dante-compliant equipment. It is also AES67 compliant, elevating interoperability between different audio networking protocols and devices. The unit supports 24 bit and offers sampling rate options of 44.1k, 48k, 88.2k, and 96 kHz to meet different commercial-grade application needs. The professional preamp circuitry AD400E comes with delivers a wide dynamic range, high signal headroom, and great Signal-to-Noise Ratio (SNR). Phantom power (+48V) can be enabled on any individual input, supporting condenser microphones while causing little signal distortion.

The 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 unit comes with a selectable automatic Standby Mode for energy-saving purposes, switching the AD400E to Standby Mode automatically when the signal level runs lower than -50 / -60 / -70 dBu for a selected duration (10 / 30 / 60 minutes), allowing the system to consume less power. The AD400E enables redundancy operation thanks to its PoE functionality, eliminating the need for additional cable installations. Furthermore, with the support for Dante Daisy Chaining, the AD400E helps simplify system infrastructure wiring. All the features come in a compact half-rack size enclosure, and consequently, less rack space is needed and installation under desks or on any flat surface is made easy.

Not only does the AD400E enhance interoperability among AoIP devices and allow for effective Pre-AMP processing , it also realizes distributed DSP systems when working with ATEN Pro Audio models, elevating installation flexibility, reducing overall cost, and broadening applications. It is suitable for professional audio scenarios utilizing the Dante networking technology, such as boardrooms, conference rooms, and hospitality venues such as restaurants and bars.



Features

- Dante AoIP technology replaces heavy, costly analog audio cables with cost-effective, easy-to-manage Cat cables
- · AES67 compliant
- Converts 4 channels of balanced / unbalanced microphone / line-level audio signals into Dante packets
- Supports 24 bit and offers sampling rate options of 44.1k, 48k, 88.2k, and 96 kHz
- Euroblock connectors come with the package for analog input connection
- Professional preamp circuitry delivers a wide dynamic range and great Signal-to-Noise Ratio (SNR)
- Phantom power (+48V) can be enabled on any individual input, supporting condenser microphones while causing little signal distortion
- Parallel Compression 4 additional channels serve as side chain inputs, combining an original signal with a compressed copy to polish the sound Built-in DSP allows 24 presets and quick setting adjustment 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
- Works with ATEN Pro Audio models to realize distributed DSP systems



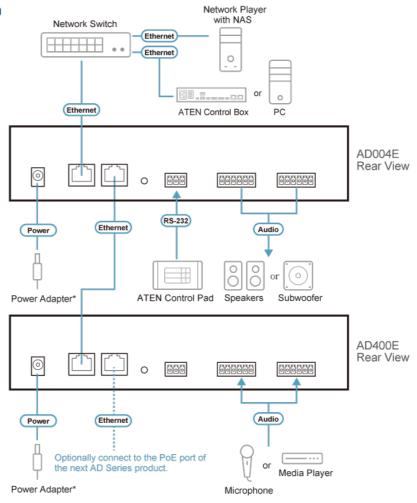
Specifications

Monophore Inquis Co-3-4d8 Oan Range 0~-3-d8 Maximum Input Level 300Bu Importance 34CV Phanton power +46V, Individual Control in Each Input Channel Uns Inputs Uns Inputs Gain Range Bibliament-84dBill Unblackment-81dBill Unblackment -81dBill Unblackment -8-		
Maximum Impat Level -30xBu Phanton power +49V, Individual Centrol in Each Imput Channel Line Imput -49V, Individual Centrol in Each Imput Channel Line Imput -30xBurner 15-4-48B Maximum Imput Level +240Bu, Nominal Imput Level: +45Bu Maximum Imput Level +240Bu, Nominal Imput Level: +45Bu Impodance Bibliomedi: 49xBu System Specification -30xBurner 29xBu System Specification 110xDux -20xDtx, 149xBux Gain Frequency Response 20-20xBtz, -40x5dB Audio Sampling 24-bit, 44.1848/88.26x984tz Constalk -856B Power -90xBurner 29xBux, 35mm, Terminal Block Burner 18mm, 15mm,		
Phanton power 4487, Individual Control in Each Input Channel	Gain Range	0~+34dB
Maximum Input Lovel	Maximum Input Level	-30dBu
Part Part	Impedance	3kΩ
Balanced: -84dB Unbalanced: -810B Unbalanced: -810B Unbalanced: -810B Unbalanced: -810B Unbalanced: -910B Unb	Phantom power	+48V, Individual Control in Each Input Channel
	Line Inputs	
Balanced: 10k.Q	Gain Range	
System Specification Distortion THD-N: <0.01%, 1kHz, Max. Gain	Maximum Input Level	+24dBu, Nominal Input Level: +4dBu
Distortion THD+Nt-Q,01%, 184z, Max, Gain Frequency Response 20-20Hz, +/0.5dB Audio Sampling 24-bit, 44.1k/48k/88.2k/96kHz Crosstalk <95dB	Impedance	
Frequency Response 20-20kHz, ょ/-0.5dB Audio Sampling 24-bit, 44.1k/48k/88.2k/96kHz Corostalik ~95dB Power	System Specification	
Audio Sampling 24-bit, 44-1K/48k/88.2k/98kHz Crosstalk < 95dB	Distortion	THD+N: <0.01%, 1kHz, Max. Gain
Crosstalik <-95dB	Frequency Response	20~20kHz, +/-0.5dB
Power Consumption 12VDC, 3.3A Power Consumption 12VDC, 3.3A Control BS-232 Connector: 3-pin, 3.5mm, Terminal Block Baud rate and protocol: Baud Rate: 19200, Data Bits: 8, Stop Bits:1, Parity: No, Flow Control: No Compliance Certification FCC, CE, UKCA Environmental Operating Temperature 0-40°C Huridity 0-80% RH, Non-Condensing Storage Temperature 2-0-60°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 (7.87 x 1.73 x 6.06 in.) Note External power adapter is sold separately.	Audio Sampling	24-bit, 44.1k/48k/88.2k/96kHz
Power Consumption 12VDC, 3.3A Power over Ethernet (PoE) Class 0, IEEE802.3af Control BS-232 Connector: 3-pin, 3.5mm, Terminal Block Baud rate and protocol: Baud Rate: 19200, Data Bits: 8, Stop Bits: 1, Parity: No, Flow Control: No Ethernet RJ45 Compliance Certification 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 (7.87 x 1.73 x 6.06 in.) Note External power adapter is sold separately.	Crosstalk	<-95dB
Power over Ethernet (PoE) Class 0, IEEE802.3af Control Connector: 3-pin, 3.5mm, Terminal Block Baud rate and protocol: Baud Rate: 19200, Data Bits: 8, Stop Bits: 1, Parity: No, Flow Control: No Ethernet RJ45 Compliance FCC, CE, UKCA Environmental FCC, CE, UKCA Environmental 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 (7.87 x 1.73 x 6.06 in.) Note External power adapter is sold separately.	Power	
Control RS-232 Connector: 3-pin, 3.5mm, Terminal Block Baud rate and protocol: Baud Rate: 19200, Data Bits: 8, Stop Bits:1, Parity: No, Flow Control: No Ethernet RJ45 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 (7.87 x 1.73 x 6.06 in.) Note External power adapter is sold separately.	Power Consumption	12VDC, 3.3A
RS-232 Connector: 3-pin, 3.5mm, Terminal Block Baud rate and protocol: Baud Rate: 19200, Data Bits: 9, Stop Bits: 1, Parity: No, Flow Control: No Ethernet RJ45 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) 2.000 x 4.40 x 15.40 cm (7.87 x 1.73 x 6.06 in.) Note External power adapter is sold separately.	Power over Ethernet (PoE)	Class 0, IEEE802.3af
Baud rate and protocol: Baud Rate: 19200, Data Bits: 8, Stop Bits: 1, Parity: No, Flow Control: No Ethernet RJ45 Compliance Gertification 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 (7.87 x 1.73 x 6.06 in.) Note External power adapter is sold separately.	Control	
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 (7.87 x 1.73 x 6.06 in.) Note External power adapter is sold separately.	RS-232	Baud rate and protocol:
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 (7.87 x 1.73 x 6.06 in.) Note External power adapter is sold separately.	Ethernet	RJ45
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 (7.87 x 1.73 x 6.06 in.) Note External power adapter is sold separately.	Compliance	
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 (7.87 x 1.73 x 6.06 in.) Note External power adapter is sold separately.	Certification	FCC, CE, UKCA
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 (7.87 x 1.73 x 6.06 in.) Note External power adapter is sold separately.	Environmental	
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 (7.87 x 1.73 x 6.06 in.) Note External power adapter is sold separately.	Operating Temperature	0~40°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 (7.87 x 1.73 x 6.06 in.) Note External power adapter is sold separately.	Humidity	0-80% RH, Non-Condensing
Weight 0.92 kg (2.04 lb) Housing Metal Dimensions (L x W x H) 20.00 x 4.40 x 15.40 cm (7.87 x 1.73 x 6.06 in.) Note External power adapter is sold separately.	Storage Temperature	-20~60°C
Housing Metal Dimensions (L x W x H) 20.00 x 4.40 x 15.40 cm (7.87 x 1.73 x 6.06 in.) Note External power adapter is sold separately.	Physical Properties	
Dimensions (L x W x H)	Weight	0.92 kg (2.04 lb)
Note External power adapter is sold separately.	Housing	Metal
	Dimensions (L x W x H)	
Note For some of rack mount products, please note that the standard physical dimensions of WxDxH are expressed using a LxWxH format.	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. Please contact your ATEN dealer or go to ATEN website for available accessories and product information.

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