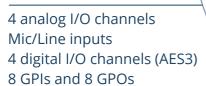


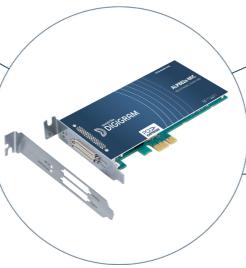
MULTI-CHANNEL LOW PROFILE PCIe SOUND CARD WITH MIC/LINE INPUTS

ALP442e-MIC is the versatile PCle sound card for professional PC-based audio systems running under Windows and Linux environments that require up to 8 microphone inputs. This card is ready for any challenge and guarantees unrivaled quality when audio and voice recording applications are critical – audio production, equipment monitoring and recording markets.

Low profile form factor ALP442e-MIC is equipped with switchable 48V phantom power and high-end preamplifiers. It also features 4 balanced analog mic/line inputs, 2 stereo AES3 inputs, 4 balanced analog outputs, 2 AES3 outputs, and 8 GPIOs.The on-board zero latency mixer features 16 I/O channels (4 analog, 4 AES3, 8 software play/record). Each of the 16 output channels has its own mix from the 16 inputs.

Low profile card with 2 brackets





8 stereo software devices for playout and recording 16x16 on-board mixer

> Inter-board synchronization* up to 8 ALP-X cards

KEY FEATURES



For Windows and Linux



Iconic Rock-solid & life-long



Pristine Digigram sound quality



Multiapplications



Hiccup free reliability



1 FORMAT

Dimensions

L: 168 mm x H: 69 mm x l: 20 mm L: 6.6 inch; H: 2.7 inch; l: 0.8 inch

Form Factor

Low profile (standard and low profile brackets included)

Expansion Bus

PCI Express™ x1 (x2, x4, x8, x16 compatible)

2 DRIVERS

Supported OS

Windows (from Windows 10 and Server 2016) Linux (from Linux Kernel 4.9)

Drivers

Windows: Asio, Wasapi/DirectSound Linux: Alsa, Libgpiod

One Driver Package

Multi-application and multi-card API available

3 CONTROL PANEL

Digigram ALP-X ASIO Settings (On Windows)

- Asio Control Panel: up to 8 ALP-X cards (intercard synchronization)
- Select I/Os used through Asio (others can be used through Wasapi)

Digigram ALP-X Manager (On Windows)

- One unified control panel for the whole ALP-X range
- Manages up to 8 ALP-X cards

Main functions

- Zero latency FPGA-based 16x16 mixer
- · Adjustment of input and output levels
- Mixing before monitoring and recording (16 mix buses)
- Clock & sync selection
- GPIO status



5 ANALOG AUDIO PERFORMANCES

Frequency response

@48 kHz, 20 Hz-20 kHz Inputs: +/- 0.83 dB Outputs: +/- 0.57 dB

SNR

Inputs A-Weighted: >115 dBA Unweighted: >112 dB

Outputs A-Weighted: >109 dBA Unweighted: >106 dB **THD + Noise** (@22 dBu /1 kHz) Inputs: <-98 dB @24 dBu Outputs: <-96 dB @24 dBu

Crosstalk

Inputs: @1 kHz / @15 kHz 128 dB / -107 dB Outputs: @1 kHz / @15 kHz -127 dB / -112 dB

Channel phase (@1 kHz)

Inputs: < 0.01° Outputs: < -0.02°

4 HARDWARE SPECIFICATIONS

INPUTS

Analog

- 4 balanced Mic / line level inputs
- A/D Converters: 24 bits / 192 kHz
- · Line level
- Maximum input level/impedance: +24 dBu / >10 k Ω
- Adjustable analog gain: from -24 dB to +16 dB, in 0.5 dB steps
- Adjustable digital gain: from -90 dB to +12 dB in 0.1 dB steps
- Mic level
- Maximum input level/impedance: +10 dBu / >10 kΩ
- Adjustable analog gain: from 0dB to +56 dB, in 0.5 dB steps
- Maximum sensitivity: 0 dBfs for a -56 dBu input signal
- Switchable 48 V phantom power on each input
- Equivalent Input Noise: <-124 dB @ Gain +56 dB (48kHz)

Digital

- 2 stereo AES3 inputs
- Adjustable digital gain: from -90 dB to +12 dB, in 0.1 dB steps
- Sample rate (kHz): 32, 44.1, 48, 64, 88.2, 96, 128, 176.4, 192
- Hardware Sample Rate Converter frequency ratio: 1:8 to 7,5:1

Others

- 1 AES11 synchronization input
- 1 Word Clock synchronization input
- 8 dry contact GPIs

OUTPUTS

Analog

- 4 servo-balanced line outputs
- D/A Converters: 24 bits / 192 kHz
- Max level / Impedance: +24 dBu / <100 Ohms
- Adjustable digital gain: from -90 dB to +12 dB, in 0.1 dB steps

Digital

- 2 stereo AES3 outputs
- Adjustable output gain: from -90 dB to +12 dB, in 0.1 dB steps
- Sample rate (kHz): 32, 44.1, 48, 64, 88.2, 96, 128, 176.4, 192

Others

- 8 relay GPOs (0.5 A, 48 VCC)
- 1 Word Clock output

6 SAMPLE FORMAT

PCM (8, 16, 24, 32 and 32 float bits), Float IEEE754

7 CABLE & CONNECTORS SPECIFICATIONS

Breakout cable for analog I/Os

- Length 1m, XLR connectors

Breakout cables for digital I/Os

- Length: 1 m
- XLR for I/Os and AES11 sync input
- BNCs for Word clock I/O
- 2 x D-Sub 25 for GPIs and GPOs

Inter board synchronization

8 SYNCHRONIZATION SOURCES

- Internal clock (kHz)
- 11.025, 16, 22.05, 24, 32, 44.1, 48, 64, 88.2, 96, 128, 176.4, 192
- AES11 (kHz)
- 32, 44.1, 48, 64, 88.2, 96, 128, 176.4, 192
- Word Clock input (kHz)
- 32, 44.1, 48, 64, 88.2, 96, 128, 176.4, 192
- Intercard clock* (possibility to connect up to 8 ALP-X cards linked with an inter-board sync cable)