

THE NEW ICONIC PCIe STEREO SOUND CARD

ALP222e is a versatile PCIe sound card for professional PC-based audio systems running under Windows and Linux environments.

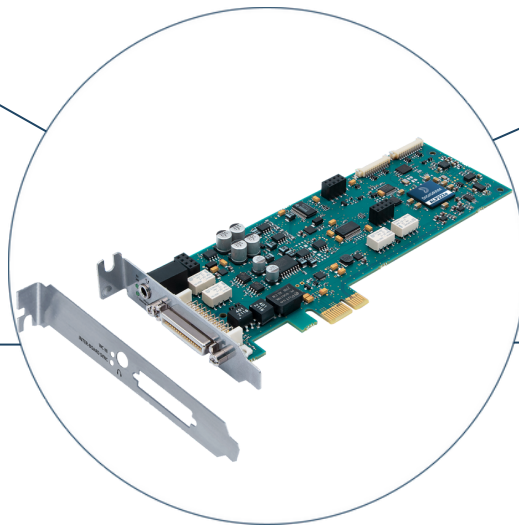
Thanks to its reliability and stability, ALP222e matches with all applications such as broadcast (24/7/365), audio production, and outstanding audio quality measurements.

This card is ready for any challenge. It offers two balanced analog line inputs and outputs, plus one stereo AES3 input and output.

A zero latency embedded mixer allows to route and mix audio channels from physical and software input devices to physical and software output devices.

Low profile card
with 2 brackets

2 mono analog channels
1 stereo AES3 channel
(total of 4 mono I/Os)



Connector for
breakout cable or
custom integration
Headphones jack

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

KEY FEATURES



For Windows
and Linux



Iconic Rock-solid &
life-long



Pristine Digigram
sound quality



Multi-
applications



Hiccup free
reliability

**soon available*

1 FORMAT

Dimensions

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

Form Factor

Low profile
(standard and low profile brackets included)

Expansion Bus

PCI Express™ (PCIe™) 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)

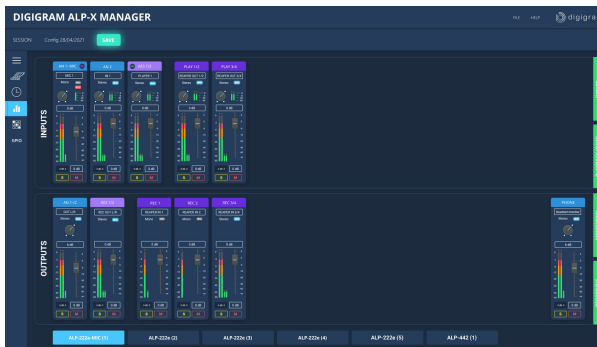
- Asio Control Panel: up to 8 ALP-X cards (intercard synchronization)
- Select I/Os used through ASIO (others can be used through Wasapi)

Digigram ALP-X Manager (On Windows)

- A unique control panel for the whole ALP-X range
 - Manages up to 8 ALP-X cards
 - 2 working modes
- Light: Set the card as 2 I/O channels (like stereo VX / PCX cards)
Full: Set the card as 4 I/O channels (analog and AES3)

Main functions

Zero latency FPGA-based mixer
Adjustment of input and output levels
Mixing before monitoring and recording
Clock & sync selection
GPIO status



5 ANALOG AUDIO PERFORMANCES

Frequency response

@48 kHz: 20 Hz - 20 kHz
Inputs: +/- 0.5 dB
Outputs: +/- 0.08 dB

THD + Noise

Inputs: <-96 dB @18 dBu (1 kHz)
Outputs: <-101 dB @18 dBu (1 kHz)

SNR

Inputs
A-Weighted: >110 dBA
Unweighted: >108 dB

Crosstalk

Inputs
-111 dB @1 kHz / -110 dB @15 kHz
Outputs
-130 dB @1 kHz / -111 dB @15 kHz

Outputs

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

Channel phase

Inputs: < 0.01° @1 kHz
Outputs: < -7.5° @1 kHz

7 CABLE & CONNECTORS SPECIFICATIONS

Breakout cable

Total breakout cable length: 1 m
XLRs for audio I/Os and AES11 input
BNC for Word Clock I/O
DB9 for GPIO



Inter board synchronization

Headphones: 3.5 mm TRS female jack

*soon available

4 HARDWARE SPECIFICATIONS

INPUTS

Analog

2 Balanced line level
A/D Converter: 24 bits / 192 kHz
Max level / Impedance: +24 dBu / >10 kOhms
Adjustable analog gain: from from -88 dB to +39 dB, in 0.5 dB steps
Adjustable digital gain: from -90 dB to +12 dB in 0.1 dB steps

Digital

1 stereo AES3 input
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: from 1:8 to 7,5:1

Other

1 AES11 synchronization input
1 Word Clock synchronization input
2 dry contact GPIOs

OUTPUTS

Analog

2 servo-balanced line outputs
D/A Converter: 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
1 stereo headphone output (20 mW for 600 Ω)

Digital

1 stereo AES3 output
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

Other

2 relay GPIOs (0.5 A, 48 VCC)
1 Word Clock output

6 SAMPLE FORMAT

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

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)