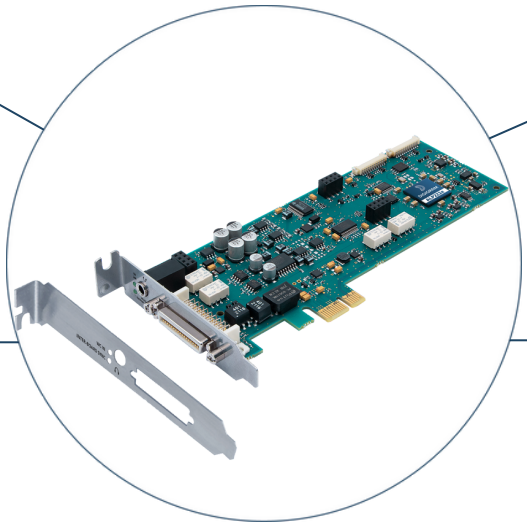
THE NEW ICONIC PCIe STEREO SOUND CARD

ALP222e is a versatile PCIe sound card for professional PC-based audio systems running under Windows and Linux environments. Extremely reliable and stable, this card is ready for any challenge. ALP222e is the perfect fit for mission critical applications where audio is key – broadcast (24/7/365), audio production, utility, public safety or transportation markets.

This card is ready for any challenge.
It offers 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

Connector for breakout cable or custom integration Headphones jack

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

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 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 TM (PCIe TM) 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
• 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

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 GPIs

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

5 ANALOG AUDIO PERFORMANCES

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

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

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

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

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

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

6 SAMPLE FORMAT

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

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

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)

soon available