

THE NEW ICONIC PCIe STEREO SOUND CARD WITH MICROPHONE INPUTS

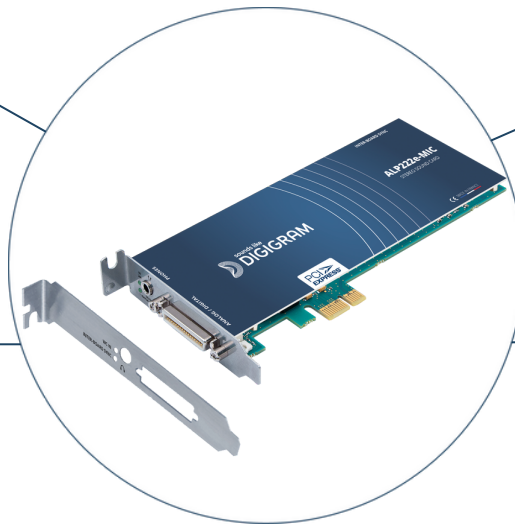
ALP222e-MIC is the versatile PCIe sound card for professional PC-based audio systems running under Windows and Linux environments that require microphone inputs.

This card is ready for any challenge and guarantees unparalleled quality when audio and voice recording applications are critical – audio production, equipment monitoring and recording markets.

ALP222e-MIC is equipped with switchable 48V phantom power and high-end preamplifiers. It features two balanced analog mic/line inputs, one stereo AES3 input, and two balanced analog outputs plus one AES3 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)

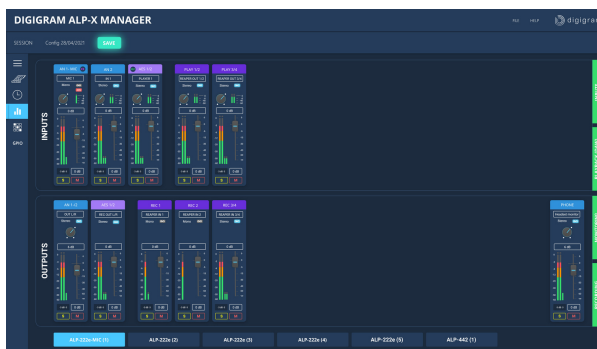
- Asio Control Panel: up to 8 ALP-X cards (intercard synchronization)
- Select I/Os used through Asio (others can be used through Wasapi)

Digigram ALP-X Manager (On Windows)

- 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



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

4 HARDWARE SPECIFICATIONS

INPUTS

Analog

- 2 Balanced Mic / line level inputs
- A/D Converter: 24 bits / 192 kHz
- Line level
- Maximum input level/impedance: +24 dBu / >10 kΩ
- Adjustable analog gain: 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
- Mic level
- Maximum input level/impedance: +10 dBu / >10 kΩ
- Adjustable analog gain: from -0dB to +65 dB, in 0.5 dB steps
- Maximum sensitivity: 0 dBfs for a -55 dBu input signal
- Switchable 48 V phantom power on each input
- Equivalent Input Noise: <-124 dB @ Gain 65 dB (48kHz)

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

Others

- 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

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