

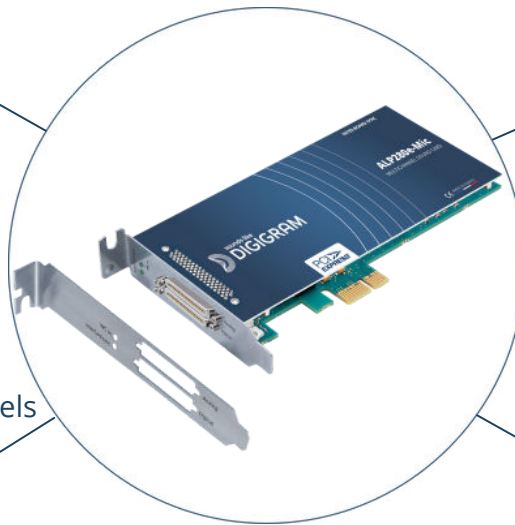
MULTI-CHANNEL LOW PROFILE PCIe SOUND CARD WITH MIC/LINE INPUTS

ALP280e-MIC has been designed for the **acquisition of analog signals** coming from **eight audio input at line or microphone level**, on professional PC-based audio systems running under Windows and Linux* environments. This **low profile form factor** card guarantees unrivaled quality when audio and voice recording applications are critical – audio production, equipment monitoring and recording markets.

ALP280e-MIC features 8 balanced analog mic/line inputs equipped with independent switchable 48V phantom powers and high-end preamplifiers, and 8 GPIOs. The on-board zero latency mixer features 16 inputs (8 analog + 8 software playback channels), and 10 outputs (2 analog + 8 software recording channels). Each of the output channels has its own mix from the 16 inputs.

Low profile card
with 2 brackets

8 analog Mic/Line input
channels
2 analog line output channels
8 GPIOs and 8 GPOs



16x10 on-board mixer
8 playout channels
8 recording channels

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

KEY FEATURES



For Windows
and Linux*



Iconic Rock-solid &
lifelong durability



Pristine Digigram
audio quality



Multi-applications



Hiccup free reliability

**available soon*

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™ x1
(x2, x4, x8, x16 compatible)

2 DRIVERS

Supported OS

Windows (from Windows 10 and Server 2019)
Linux* from:
- Ubuntu 20.04 kernel 5.15,
- Debian 11 kernel 5.10
- RHEL 9 kernel 5.14

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 16x10 mixer
- Adjustment of input and output levels
- Mixing before monitoring and recording (10 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°

6 SAMPLE FORMAT

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

4 HARDWARE SPECIFICATIONS

INPUTS

Analog

- 8 balanced Mic / line level inputs
- A/D Converters: 24 bits / 192 kHz
- Line level
 - Maximum input level/impedance: +24 dBu / >10 kΩ
 - Adjustable analog gain: from -24 dB to +16 dB, in 0.5 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)

Others

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

OUTPUTS

Analog

- 2 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

Others

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

7 CABLE & CONNECTORS SPECIFICATIONS

Breakout cable for analog I/Os

- Length 1m
- 8 female XLR connectors
- 2 male XLR connectors

Breakout cable for digital I/Os

- Length 1m
- 1 XLR for AES11 sync input
- 2 BNC connectors for Word clock I/O
- 2 x D-Sub 25 for GPIOs 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)

*available soon