

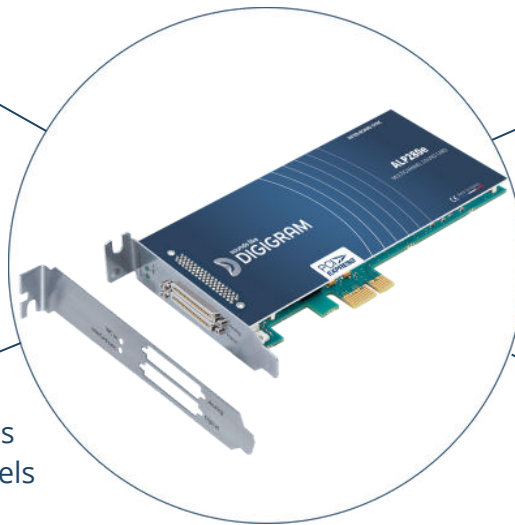
MULTI-CHANNEL LOW PROFILE PCIe SOUND CARD FOR RECORDING ANALOG INPUTS

ALP280e has been designed for the **acquisition of analog signals** from eight line-level audio inputs, on professional PC-based audio systems running under Windows and Linux* environments. This **low profile** card is ready for any challenge and guarantees unrivaled reliability and utmost quality when audio recording applications are critical – audio production, recording and audio analysis markets.

ALP280e features 8 balanced analog line inputs with analog and digital gains adjustment, 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 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

* available soon

4 HARDWARE SPECIFICATIONS

INPUTS

Analog

- 8 balanced 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
- Adjustable digital gain: from -90 dB to +12 dB in 0.1 dB steps

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

7 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)

8 CABLE & CONNECTORS

Breakout cable for analog I/Os

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

Breakout cables for digital I/Os

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

Inter board synchronization*