



LoLa280 – Multichannel Sound Card

Key Workflow: Linear PCM multichannel stereo sound card for professional audio recording and logging applications

LoLa280 is a low profile professional linear (PCM) multichannel sound card based on the PCI Express bus interface. It is a reference sound card for professional audio recording systems for courtrooms, parliaments and other conference centers, and for audio logging and archiving systems for radios or safety organizations.

At a glance

LoLa280 features eight balanced analog inputs and two balanced analog outputs. Thanks to its hardware digital mixer, it allows mixing of inputs before recording from eight mono devices, monitoring of a mix of inputs on the two outputs, and mixing up to 8 playback channels to the two outputs. This card can be used with Windows or Linux operating systems, with software applications based on standard driver interfaces such as WDM Kernel streaming, DirectSound, Wasapi, and ASIO for Windows, and ALSA for Linux.

- Developed for professional audio recording and logging applications
- Low profile PCI Express
- Very low latency sound card
- Eight balanced analog audio inputs
- Hardware digital mixer
- Supported under Windows and Linux

Key features

- Multichannel linear PCM sound card
- Low profile PCI Express
- Eight balanced analog inputs and two balanced analog outputs; +24 dBu max level

- On board mixer:
 - 8 recording channels with pre-mixing of the input signals
 - 8 playback channels mixed to the two outputs
 - mixing and monitoring of the inputs to the two outputs
 - AGC on all the input
 - Adjustable input and output analog and digital gains
- Support for Linux (Alsa driver) and Windows 32-bit and 64-bit (WDM Kernel streaming, DirectSound, Wasapi, ASIO)
- Breakout cable for audio connectivity

Included

- The card
- Breakout cable for audio connectivity (optional for OEMs)
- Drivers and manuals can be downloaded from the Digigram Website

Configuration

- Bus/Format: PCI Express™ (PCIe®) x1 (compatible x2, x4, x8, x16, x32)
- Size: 168 mm x 69 mm x 20 mm
- Power requirements (+3.3V/+12V): 1.2 A / 0.22 A
- Operating: temp / humidity (non-condensing): 0°C / +50°C • 5% / 90%
- Storage: temp / humidity (non-condensing): -5°C / +70°C • 0% / 95%

Inputs

- Analog line inputs (mono): 8 balanced
- Maximum input level/impedance: +24 dBu / > 10 kOhms
- Adjustable input gain (manager):
 - analog: from -90 dB to +18 dB (max sensitivity: 0dbfs for +6dBu input signal)
 - digital: from +18 dB to +36 dB
- Other inputs: 1 standard Word Clock input (up to 192 kHz)

maximum sensitivity: 0 dBFs for +6 dBu input

Outputs

- Analog line outputs (mono): 2 balanced
- Maximum output level / impedance: +24 dBu / >100 ohms
- Adjustable output gain (manager) analog: from -48 dB to 0 dB. digital: from -110 dB to +12 dB
- Other outputs: 1 standard Word Clock output (up to 192 kHz). Stereo headphones (20 mW in 600 ohms) on mini jack (female TRS 3,5 mm)

CONNECTORS

- External connector: 50 pin SCSI
- Sampling frequencies available: Programmable from 22,05 to 192 kHz
- A/D and D/A converter resolution: 24 bits
- Supported audio formats: PCM (16, 24, 32 bits, and 32 bits Float)