



Multichannel sound card

Digigram VX442

Versatility and exceptional audio quality

The VX442 features six inputs/outputs with exceptional audio quality at 96 kHz/24-bit. It's all you need for professional multi-channel applications such as audio production or archiving.

Digigram's versatile VX442 features four balanced analog inputs/outputs with 24-bit converters, as well as a digital stereo input/output in AES/EBU or S/PDIF formats. A total of six inputs/outputs are available for simultaneous record and playback with exceptionally low latency on a large number of supported computer platforms.

The VX442 can be used with most audio applications using Microsoft's Wave and DirectSound protocols, Apple's Sound Manager and Core Audio, Steinberg's ASIO, Tascam's GSIF, and Linux ALSA. Support of Digigram's development tools makes it easy to integrate with applications created by Digigram's development partners.

Key features

- 6 simultaneous inputs/outputs.
- 4 balanced analog inputs/outputs +4 dBu/-10dBV.
- Balanced digital stereo input/output in AES/EBU or S/PDIF formats.
- Versatility and exceptional audio quality:
 - Sample rate: 8 to 96 kHz.
 - PCM resolution: 8,16 or 24 bit.
 - Excellent audio performance, even at lowest resolution.
- Very low latency, due to hardware and software architecture (by default at 48 kHz: 8ms, minimum: 1.5 ms).
- Large choice of supported platforms:
 - PC: Wave, DirectSound, ASIO2, GSIF
 - Mac: Sound Manager, ASIO2 and Core Audio (Mac OS X)
 - Linux: ALSA.
- Multiple applications may share the resources of a single card.
- Dedicated control interface permits routing and mixing between different hardware and virtual inputs/outputs.

VX442

Configuration	
Bus/Format	Universal PCI, master mode, PCI-X compatible
Size	121mm x 99mm
Power requirements (+5V / +12V / -12V)	0.25A / 0.2A / 0.15A
Operating: temp / humidity (non-condensing)	0°C/+50°C • 5% / 90%
Storage: temp / humidity (non-condensing)	-5°C/+70°C • 0% / 95%
Inputs/outputs	
Analog line inputs (stereo)	2 balanced
Maximum input/impedance	+22 dBu / >10 kΩ
Selectable input level	-10 dBV, -2 dBu, +4 dBu
Digital inputs (stereo)	1 AES/EBU or S/PDIF
Analog outputs (stereo)	2 balanced
Maximum output/impedance	+22 dBu/low impedance
Selectable output level	-10 dBV, -2 dBu, +4 dBu
Digital outputs (stereo)	1 AES/EBU or S/PDIF
Buffersize and resulting latency at 48 kHz	Typical: 384 samples (8ms), minimum: 64 samples (<1.5ms)
AES11 synchronization	Yes
Connectors	25-pin SUB-D for analog I/O; 15-pin HD SUB-D for digital I/O
Audio specifications	
Sampling frequencies available	From 8 to 96kHz
A/D and D/A converter resolutions	8, 16 or 24 bits
Frequency response (record + play) Fs=48 kHz	20 Hz-20 kHz: ±0,1 dB
Frequency response (record + play) Fs=96 kHz	20Hz-40kHz: ±0,6 dB
Signal to noise ratio (unweighted) (record + play)	>95 dB (Fs=96kHz), >94 dB (48kHz), >81 dB (11.025kHz)
Distortion + noise at 1 kHz (record + play)	<-87 dB (Fs=96kHz), <-88 dB (48kHz), <-80 dB (11.025kHz)
Channel phase difference: 20 Hz-20 kHz	0.2°/0.5°
Analog channel crosstalk at 1 kHz	<-110 dB
Jitter Fs=48kHz	< 3 ns
Development environments	
Management	Wave, DirectSound, Sound Manager, ASIO2, GSIF, Digigram Virtual PCX, Linux ALSA
OS supported	Windows 2000 and XP, Mac OS 9 and X, Linux

The available level of audio processing is defined by the application and the host computer used.



Networking Your Sound

Digigram (www.digigram.com) digital audio solutions are key to the success of public address and pro sound installations, as well as broadcast and media production companies worldwide. We develop innovative networked audio devices, computer sound cards, and audio management software.

Digigram Powered solutions are installed in thousands of radio and television stations; corporate and commercial sound installations; and audio recording and video post-production facilities around the globe.

Customers are served from three regional business units: Digigram SA (Digigram Headquarters, Montbonnot, France), Digigram Inc. (Arlington, VA USA), and Digigram Asia (Singapore). Digigram is publicly traded on the Paris stock exchange (Code ISIN: FR 00000 35784).

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