



Professional stereo sound cards

VX442HR and VX442e

PCI/PCI Express linear sound cards
with 2 stereo inputs and 2 stereo outputs

Digigram now offers both PCI and PCI Express versions of its VX442 linear sound card for demanding applications in broadcast such as production, on-air, and logging.

Featuring excellent electronic design, based on some 20 years of dedication to audio quality, and a complete set of low-latency drivers, these cards will meet even your most demanding requirements for broadcast quality applications.

Key features

- Analog and digital I/Os
- Up to 24-bit/192 kHz
- Comprehensive set of Windows® drivers: Digigram np, WDM DirectSound (digitally signed by Microsoft®), ASIO
- High-quality hardware sample rate converters
- Compact design that fits in small PCs

VX442HR and VX442e

VX442HR

VX442e

Configuration	VX442HR	VX442e
Bus/Format	4-bit/66 Mhz Universal PCI, PCI and PCI-X compatible, master mode	PCI Express™ X1 (compatible with X1, X2, X4, X8, X12, X16, X32 slots)
Size	175 mm X 99 mm X 20mm, requires a single PCI slot, short-length PCI slots compatible	67.7 mm X 106.7 mm X 17.1 mm
Digital Signal Processor	Motorola 56311 at 150 MHz	
Inputs		
Balanced analog line inputs (mono)	4	
Maximum input level / impedance	+24 dBu / > 10 kΩ	
Sampling frequencies available	Programmable from 8 to 192 kHz	
A/D and D/A converter resolution	24 bits	
Digital inputs (stereo)	2 AES/EBU with hw Sample Rate Converters, 1:3 to 3:1, up to 96 kHz	2 AES/EBU with hw Sample Rate Converters, 7.5:1 to 1:8, up to 192 kHz
Programmable input gain	analog and digital	
PCM recording (encoding)	8, 16 or 24 bits	
Other inputs	AES/EBU Sync (up to 192 kHz), Word clock (up to 96 kHz), LTC, Video	
AES11 synchronization	Yes	
Outputs		
Analog line outputs (mono)	4 servo-balanced	
Maximum output level / impedance	+24 dBu / < 100 Ω	
Digital outputs (stereo)	2 AES/EBU, up to 192 kHz	
Programmable output gain	analog and digital	
Other outputs	Wordclock, interboard sync, companion board connector	
Connectors		
External connector	62-pin SUB-D	
Digigram accessories available	Breakout cable	
Internal connectors	Inter-board Sync and Companion Board Link	
Audio performance measured at Fs=48 kHz		
Frequency response (record + play)	20 Hz -20 kHz: ±0.2 dB	
Dynamic range (A-weighted)	Analog In: >104 dB Analog Out: >104 dB	
THD + noise 1 kHz at -1 dBfs (A-weighted)	Analog In: <-97 dB Analog Out: <-94 dB	
Channel phase difference: 20/20kHz	0.2° / 2° -	
Crosstalk (Analog in or out)	1 kHz at 22 dBu: <-100 dB 15 kHz at 22 dBu: <-85 dB	
Development environments and on-board processing		
Supported OS Management	Windows XP, 2003 Server, Vista, 2008 Server, Seven (32 bits and 64 bits) np SDK, ASIO, DirectSound (all: PCM only)	
Main on-board processing features (with np SDK)	PCM play, rec, direct monitoring, real-time mixing, level adjustment, panning, cross-fade, punch-in/punch-out, crubbing, frequency conversions	



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