



HR series of VX sound cards

VX1222HR and VX1221HR

Multichannel sound cards for linear-audio-based live-assist applications

The VX1222HR and VX1221HR take linear-audio-based live-assist systems from four to six stereo outputs in a short-length PCI format. Benefiting from the key features of Digigram's new High Resolution series, this multichannel sound card provides Digigram audio quality and reliability to professional users working with software based on standard WDM DirectSound, ASIO, WAVE, or Digigram application programming interfaces.

With only one PCI slot occupied in the host computer, it is possible to feed six different stereo signals, for example three different play-lists, advertising, jingles, and a cue output, to the production console, while simultaneously recording the program to harddisk. The VX1222HR and VX1221HR support the simultaneous play-out of two 5.1-surround signals.

Key features

- First VX sound cards with 2 inputs and 12 outputs:
 - VX1222HR: analog and digital I/Os
 - VX1221HR: digital I/Os
- Short-length PCI format (only 175 mm/6.875 inches long)
- 24-bit/192 kHz converters
- 66 MHz/64-bit PCI interface
- Comprehensive set of drivers: Digigram np, WDM DirectSound, Wave, ASIO
- Hardware sample rate converter for recording of a digital signal with a sample frequency different of the internal clock
- Companion board connector for Digigram or custom add-on cards
- Optional breakout box

VX1222HR

VX1221HR

Configuration		
Bus/Format	64-bit/66 Mhz Universal PCI, PCI and PCI-X compatible, master mode	
Digital signal processor & RAM	Motorola 56321 at 240 MHz 512 kWords	
Size	175 mm x 99 mm	
Operating: temp / humidity (non-condensing)	0°C/+50°C * • 5%/90%	
Storage: temp / humidity (non-condensing)	-5°C/+70°C • 0%/95%	
Inputs		
Balanced analog line inputs (mono)	2	—
Digital inputs (stereo)	1 AES/EBU with hw Sample Rate Converter, 1:3 to 3:1, up to 96 kHz	
Maximum input level/impedance	+24 dBu >100 kΩ	—
Programmable input gain	analog and digital	digital
Other inputs	AES/EBU Sync (up to 192 kHz), Word clock (up to 96 kHz), LTC, Video	
AES11 synchronization	Yes	
Outputs		
Servo-balanced analog line outputs (mono)	12	—
Digital outputs (stereo)	6 AES/EBU, up to 192 kHz	
Maximum output level/impedance	+24 dBu / low impedance	—
Programmable output gain	analog and digital	digital
Additional outputs	Word clock	
Connectors		
Internal connectors	Inter-board Sync and Companion Board Link	
Board connector	62-pin SUB-D	
Digigram accessories available	Breakout cable or 2-RU Breakout Box	
Audio specifications		
Sampling frequencies available	Programmable from 8 to 192 kHz	
A/D and D/A converter resolution	24 bits	
Supported audio formats	PCM (8, 16, 24 bits)	
Audio performance measured at Fs=48 kHz		
Frequency response (record + play)	20 Hz -20 kHz: 0/-0,4 dB	—
Dynamic range (A-weighted)	Analog In: >104 dB	—
THD + noise 1 kHz at -1 dBfs	Analog Out: >110 dB	—
	Analog In: <-96 dB	—
	Analog Out: <-98 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: <-90 dB	—
Development environments		
Management	np SDK, Wave, ASIO (PCM only), DirectSound (PCM only)	

* With two cards installed next to each other, the host computer must be suitably aerated.



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).

Digigram SA

(Serving Europe, Africa, Middle East, Latin America)

Parc de Pré Milliet
38330 Montbonnot-FRANCE
Tel: +33 (0)4 76 52 55 01
Fax: +33 (0)4 76 52 53 07
E-mail: sales@digigram.com

Digigram Inc.

(Serving North America)

2101 Wilson Boulevard, Suite 1004,
Arlington, VA 22201-USA
Tel: +1 703 875 9100
Fax: +1 703 875 9161
E-mail: input@digigram.com

Digigram Asia Pte Ltd.

(Serving Asia and Australia/Oceania)

350 Orchard Road
#19-07 Shaw House Singapore
238868-SINGAPORE
Tel: +65 6291 2234 - Fax: +65 6291 3433
E-mail: info_asia@digigram.com