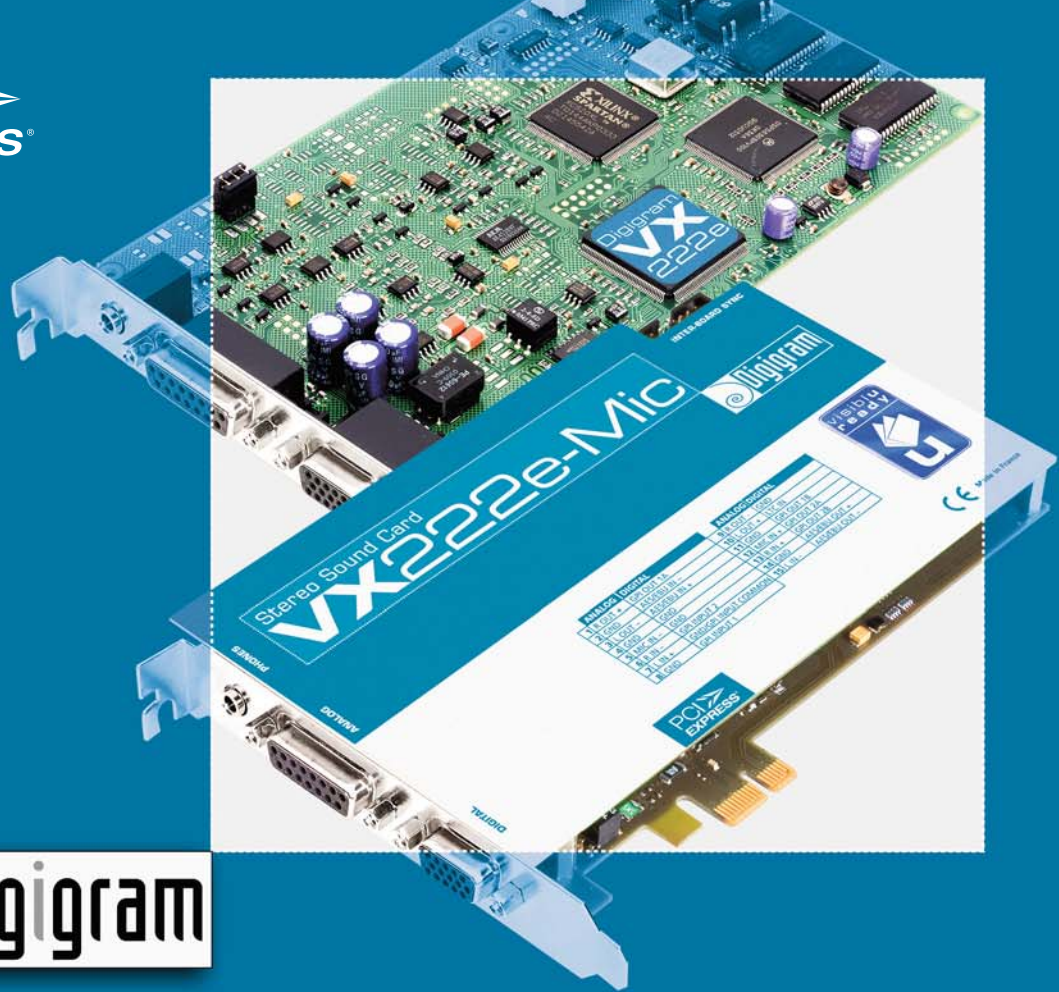


PCI  
EXPRESS®



 Digigram

Professional stereo sound cards

# VX222e and VX222e-Mic

## boarding pass to a new world

Digigram now offers PCI Express versions of its VX222HR and VX222HR-Mic linear sound cards for demanding applications in broadcast, production, or voice-over recording. Exacting specs, outstanding quality, absolute reliability and total connectivity make this new generation the number one choice for pro audio manufacturers and software vendors. The VX222e and VX222e-Mic stereo sound cards share the same features as the HR series and integrate seamlessly with the same professional audio software.



These sound cards are visiblu ready : get connected to the world of distributed IP audio. A solution based on visiblu®, the Network Audio Operating System by Digigram, takes advantage of their power for low latency wide area network encoding and processing, whether they are located next door or hundreds of miles away.

### Key features

- 24-bit/192kHz AD/DA converters
- +24 dBu maximum analog signal levels
- 3-band parametric EQ and maximizer,
- LTC, and interboard synchronization inputs
- Native, low-latency HR driver package: WDM DirectSound, ASIO, Wave and driver for Digigram SDK
- DirectSound driver signed by Microsoft Windows Hardware Quality Labs

### VX222e-Mic additional features:

- One professional grade analog mic preamp with analog compressor limiter, mixed with the analog line inputs
- Hardware sample rate converter on the digital input
- AES42 support for AES42 digital microphones recording

# VX222e and VX222e-Mic

## VX222e

## VX222e-Mic

<b>Configuration</b>		
Bus/Format	PCI Express™ X1 (compatible with X1, X2, X4, X8, X12, X16, X32 slots)	
Digital Signal Processor	Motorola 56303 at 100 MHz	
RAM	128 kWords	512 kWords
Size	168 mm x 99 mm x 20 mm	
Power requirements (+3.3V/+12V)	1 A / 0.2 A	1.3 to 2.3 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%	
<b>Inputs</b>		
Balanced analog line inputs (mono)	2	
Maximum line input level/impedance	+24 dBu / <10 kOhms	
Programmable input gain	Analog and digital	
Digital inputs (stereo)	1 AES/EBU	1 AES/EBU, AES42 compatible
Hardware sample rate converter	No	Switchable, ratio from 1:8 to 7.5:1, up to 192kHz
AES/EBU sync input	No	Yes
AES11 synchronization	Yes	
Other inputs	2 GPI (dry contact), LTC	
<b>Outputs</b>		
Servo-balanced analog line outputs (mono)	2	
Maximum output level / impedance	+24 dBu / < 100 Ohms	
Digital outputs (stereo)	1 AES/EBU	
Programmable output gain	Analog and digital	
Other outputs	1 stereo headphone output (600 Ohms), 2 GPO (relay, 0.5 A, 48 VCC)	
<b>Connectors</b>		
Internal connector	Inter board synchronization	
External connectors	15-pin Sub-D for analog I/Os, 15-pin HD Sub-D for digital I/Os, Sync., and GPIO Mini jack headphone stereo output (3,5 mm TRS female jack)	
<b>Audio specifications. Measurements done at Fs=48 kHz unless stated otherwise, with filter on the 22 Hz- 22 kHz range</b>		
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), Float IEEE754	
Frequency response (record + play)	at 48 kHz: 20 Hz - 20 kHz: +0 /-0.3 dB at 96 kHz: 20 Hz - 40 kHz: +0 /-0.4 dB at 192 kHz: 20 Hz - 80 kHz: +0 /-1.1 dB	
Channel phase difference: 20/20kHz	<0.2°/2°	
Dynamic range (A-weighted)	Analog In: >104 dBA, Analog Out: > 106 dBA	
THD + noise 1 kHz at -2 dBfs	Analog In: <-97 dB, Analog Out: <-95 dB VX222e-Mic sample rate converter: <-130 dB	
Crosstalk (Analog in or out)	1 kHz at +24 dBu: <-115 dB, 15 kHz at +24 dBu: <-100 dB	
<b>Development environments</b>		
Digigram management	np SDK (HR runtime, PCM only)	
Other management	Wave, ASIO, DirectSound (all PCM only)	
Supported operating systems	Windows Vista, 2000, XP <sup>1</sup> , and Windows 2003 <sup>1</sup> Server	
Main on-board processing features	Direct monitoring, real-time mixing, level adjustment, 3-band parametric equalizer, maximizer, panning, cross-fade, punch-in/punch-out, scrubbing	

## VX222e-Mic

<b>Additional analog microphone input</b>	
Balanced analog microphone input (mono)	1, with analog expander/compressor/limiter This input is mixed with the two line inputs before A/D conversion
48V phantom power supply	Yes
Programmable mic gain	0 to 66 dB in 0.5 dB steps
Maximum mic input level/impedance	+10 dBu / >10 kOhms
Equivalent Input Noise, A/D-D/A at 48kHz, G=60 dB, Z=200Ohms	<-125 dBm
<b>AES/EBU input special features</b>	
Support of AES42 digital microphones	Yes, with digital phantom power supply (10 V min / 250 mA max)
Remote control of digital microphones	Yes
AES42 synchronization mode	Operational mode 1 (the microphone generates its own clock)

(1) 32-bit version

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