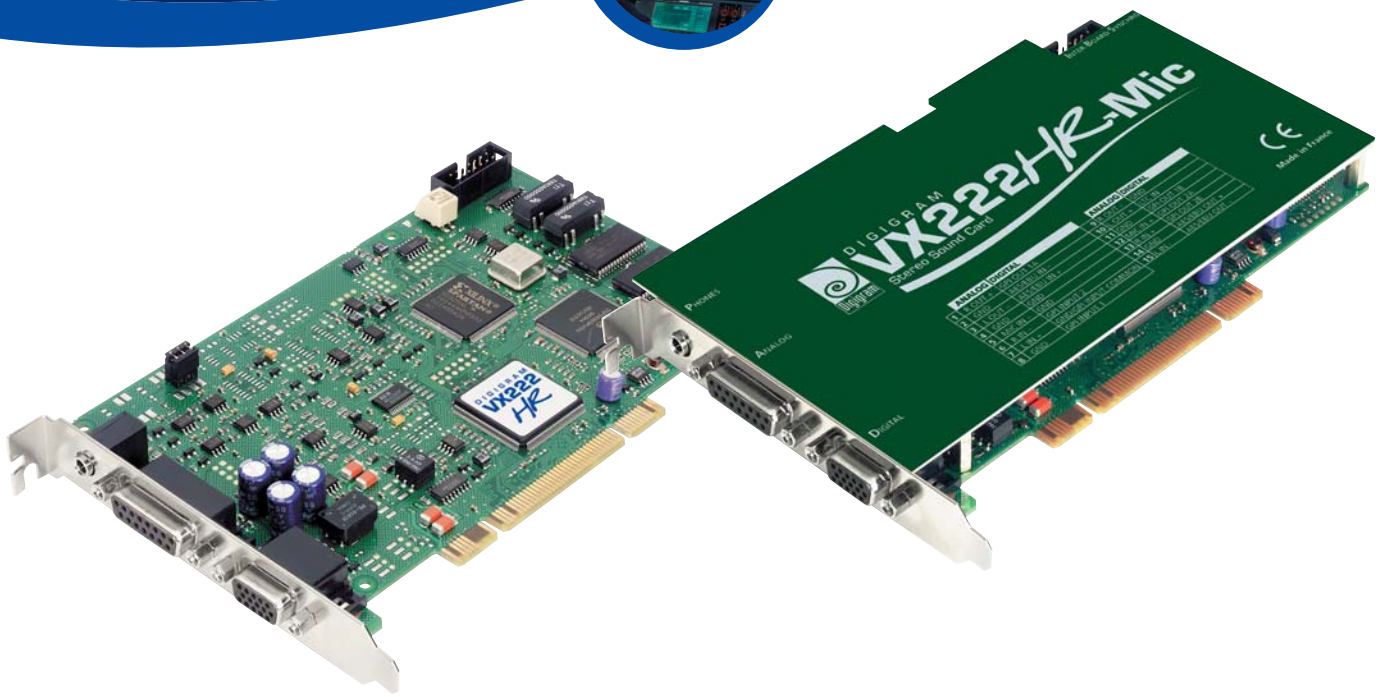
Digigram

Networking Your Sound



Professional stereo sound cards

VX222HR and VX222HR-Mic

Stereo sound cards for production, editing, on-air and journalists' workstations.

By upgrading the popular VX222 series to the HR level, Digigram provides state of the art sound quality, more features and a greater flexibility for demanding audio applications.

Featuring excellent electronic design based on 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

- 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

VX222HR-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

	VX222HR	VX222HR-Mic
Configuration		
Bus/Format	32-bit/66 Mhz Universal PCI, PCI and PCI-X compatible, master mode	
Digital Signal Processor	Motorola 56303 at 100 MHz	
RAM	128 kWords	512 kWords
Size	175 mm x 99 mm x 20 mm	
Power requirements (+3.3V/+5V / +12V / –12V)	0.35 A / 0.2 A / 0.2 A / 0.08 A	0.4 A / 0.3 to 0.9 A / 0.22 A / 0.1 A
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	
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	
Outputs		
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)	
Connectors		
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)	
Audio specifications Measurements done at Fs=48 kHz unless stated otherwise, with filter on the 22 Hz- 22 kHz range		
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 VX222HR-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	
Development environments		
Digigram management	np SDK (HR runtime, PCM only)	
Other management	Wave, ASIO, DirectSound (all PCM only)	
Supported operating systems	Windows 2000, XP[1], and Windows 2003[1] 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	

	VX222HR-Mic
Additional analog microphone input	
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
AES/EBU input special features	
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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