



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 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

- 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 and VX222HR-Mic

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 Vista, 2000, XP, and Windows 2003 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=2000ohms	<-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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