



*Professional multichannel sound cards*

# HR series of PCX sound cards

The new industry standard

Digigram sets a new industry standard by taking its PCX range of sound cards to the next level: Presenting the High Resolution series for the most demanding applications in broadcast such as production, on-air, and logging. State of the art sound quality, more features, more processing power, and greater flexibility for custom developments make the new generation the N° 1 choice for pro audio manufacturers and software vendors. The PCX882HR and PCX881HR multichannel sound cards are the first to benefit from the characteristics of the HR series.

## Key features HR series of PCX sound cards

- 24-bit/192 kHz converters
- Hardware sample rate converters for simultaneous recording of digital signals with different sample frequencies
- 66 MHz/64-bit PCI interface
- More powerful DSP
- Comprehensive set of drivers: Digigram np, WDM DirectSound, Wave, ASIO
- Short-length PCI format (only 175 mm/6.875 inches long)
- Companion board connector for Digigram or custom add-on cards

## Key features PCX882HR and PCX881HR

- First PCX sound cards with 8 inputs and 8 outputs
- PCX882HR: analog and digital I/Os
- PCX881HR: digital I/Os
- Optional breakout box

## PCX882HR

## PCX881HR

<b>Bus/Format</b>	64-bit/66 Mhz Universal PCI, PCI and PCI-X compatible, master mode	
<b>Size</b>	175 mm X 99 mm X 20mm, requires a single PCI slot, short-length PCI slots compatible	
<b>Digital Signal Processor</b>	Motorola 56321 at 240 MHz	
<b>Inputs</b>		
Balanced analog line inputs (mono)	8	-
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)	4 AES/EBU with hw Sample Rate Converters, 1:3 to 3:1, up to 96 kHz	
Programmable input gain	analog and digital	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	
<b>Outputs</b>		
Analog line outputs (mono)	8 servo-balanced	-
Maximum output level / impedance	+24 dBu / < 100 Ω	-
Digital outputs (stereo)	4 AES/EBU, up to 192 kHz	
Programmable output gain	analog and digital	digital
Other outputs	Wordclock, interboard sync, companion board connector	
<b>Connectors</b>		
External connector	62-pin SUB-D	
Digigram accessories available	Breakout cable or 2-RU Breakout Box	
Internal connectors	Inter-board Sync and Companion Board Link	
<b>Audio performance measured at Fs=48 kHz</b>		
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	- -
<b>Development environments and on-board processing</b>		
Supported OS	Windows 2000 and XP	
Management	np SDK, Wave, ASIO (PCM only), DirectSound (PCM only)	
Main on-board processing features (with np SDK)	MPEG and PCM play, rec, direct monitoring, real-time mixing, panning, cross-fade, punch-in/punch-out, scrubbing, time-stretching, pitch-shifting, format and frequency conversions	
mp3 play and mix (with np SDK)	Yes	
MPEG play, rec and mix (w/ np SDK)	layer 1 and 2	



## Networking Your Sound

**Digigram ([www.digigram.com](http://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).

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