

Xonar DG

- [Overview](#)
- [Specifications](#)
- [Gallery](#)

Print

- ## Audio Performance

Output Signal-to-Noise Ratio (A-Weighted):

105 dB

Input Signal-to-Noise Ratio (A-Weighted):

103 dB

Output THD+N at 1kHz:

0.0025% (-92dB)

Input THD+N at 1kHz:

0.0022% (-93dB)

Frequency Response (-3dB, 24-bit/96kHz input):

<10Hz to 48kHz

Output/Input Full-Scale Voltage

1Vrms (3Vp-p)

- ## Bus Compatibility

PCI:

PCI v2.2 or above bus compatible

- ## Main Chipset

High Fidelity Headphone Amplifier:

Optimized for 32~150Ω **Audio Processor:**

C-Media CMI8786 High-Definition Sound Processor (Max. 96KHz/24bit)

24-bit D-A Converter of Digital Sources:

Cirrus Logic CS4245*1 (104dB DNR, Max. 192KHz/24bit) / Cirrus Logic CS4361*1 (103dB DNR, Max. 192KHz/24bit)

24-bit A-D Converter for Analog Inputs:

Cirrus Logic CS4245*1 (104dB DNR, Max. 192KHz/24bit)

- ## Sample Rate and Resolution

Analog Playback Sample Rate and Resolution:

44.1K/48K/96KHz @ 16/24bit for all channels

Analog Recording Sample Rate and Resolution:

44.1K/48K/96KHz @ 16/24bit

S/PDIF Digital Output:

44.1K/48K/96KHz @ 16/24bit, Dolby Digital, DTS, WMA-Pro

ASIO 2.0 Driver Support:

44.1K/48K/96KHz @ 16/24bit

- **I/O Ports**

Analog Output Jack:

3.50mm mini jack *3 (Front/Side/Center-Subwoofer)

Analog Input Jack:

3.50mm mini jack *1 (Line-In/Mic-In)

Other line-level analog input (for CD-IN/TV Tuner):

Aux-In (4-pin header on the card)

Digital S/PDIF Output:

High-bandwidth Optical Connector supports 96KHz/24bit

-additional SPDIF-out header for HDMI audio output

Front-Panel Header:

Supports headphone jack-detection, automatically switch audio output from back-panel to front

- **Driver Features**

VocalFX™:

The latest vocal effect technologies for gaming and VoIP, including:

- VoiceEX: produces vivid environmental reverberation for your voice in EAX games
- ChatEX: emulates different background environment effects when you chat online
- Magic Voice: changes your voice pitch to different types (Monster/Cartoon...) for disguising your real voice or just for fun in online chatting

Operation System:

Windows Vista/XP(32/64bit)/MCE2005

Dolby® Technologies:

Dolby Headphone: technology allows users to listen to music, watch movies, or play games with the dramatic 5.1-channel surround or realistic 3D spacious effects through any set of stereo headphones.

Smart Volume Normalizer™:

Normalizes the volume of all audio sources into a constant level and also enhances your 3D sound listening range and advantages in gaming

Xear 3D™ Virtual Speaker Shifter:

Adjustable virtual 7.1-speaker positioning

Magic Voice™:

Changes your voice pitch to different types (Monster/Cartoon...) for disguising your real voice or just for fun in online chatting

Karaoke Functions:

Music Pitch-Shifting, Vocal Cancellation, and Microphone Echo effects with Stereo Mix recording (Wave and Mic-in) for online Karaoke or online DJ applications

FlexBass™:

Professional Bass Management/Enhancement system

Other Effects:

10-band Equalizer/27 Environment Effects

3D Sound Engines/APIs:

7: DirectSound3D® GX 2.5, EAX® 2.0&1.0, DirectSound® HW, DirectSound SW, A3D® 1.0, OpenAL generic modes, 128 3D sounds processing capability

Vista: DirectSound3D® GX 2.5, EAX® 2.0&1.0, DirectSound® HW, DirectSound SW, A3D® 1.0, OpenAL generic modes, 128 3D sounds processing capability

XP: DirectSound3D® GX 2.5, EAX® 2.0&1.0, DirectSound® HW, DirectSound SW, A3D® 1.0, OpenAL generic modes, 128 3D sounds processing capability

DS3D GX2.0:

DS3D GX 2.5 supports EAX gaming sound effects and DirectSound 3D hardware enhanced functions on Windows 7/Vista. (DirectX/DirectSound 3D compatible)

- **Accessories**

1 x Quick Start Guide
1 x Driver CD
1 x Low-profile Bracket

- **Size**

64.39 170.44mm x



- All specifications are subject to change without notice. Please check with your supplier for exact offers. Products may not be available in all markets.
- PCB color and bundled software versions are subject to change without notice.
- Brand and product names mentioned are trademarks of their respective companies.