**ComX Computers**
Product Specification Sheet

# XONAR_ESSENCESTX/A

Asus Xonar Essence STX Sound Card

## Product Overview

Asus Xonar Essence STX Sound Card PCI Express Rev. specification compatible, Industry-leading 124dB SNR, Built-in headphone amp drives every available headphone with



## Specifications

**Specifications:**

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| Audio Performance | Output Signal-to-Noise Ratio (A-Weighted): |
| | 124dB for Front-out, 117dB for Headphone-out (600ohms) dB |
| | Input Signal-to-Noise Ratio (A-Weighted): |
| | 118 dB |
| | Output THD+N at 1kHz: |
| | 0.0003% (-110dB) for Front-out, 0.001% (-100dB) for Headphone-out |
| | Input THD+N at 1kHz: |
| | 0.0002% (-113dB) for Line-in |
| | Frequency Response (-3dB, 24-bit/192kHz input): |
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| | Output/Input Full-Scale Voltage |
| | 2 Vrms (5.65 Vp-p) |
| Bus Compatibility | PCI Express: |
| | -PCI Express Rev. specification compatible |
| | -Compatible with X1, X4, X8, X16 PCI Express slots |

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| Main Chipset | Audio Processor: |
| | ASUS AV100 High-Definition Sound Processor (Max. 192KHz/24bit) |
| | 24-bit D-A Converter of Digital Sources: |
| | Texas Instruments PCM1792A*1 for Front-Out (127dB SNR, Max. 192kHz/24bit) |
| | 24-bit A-D Converter for Analog Inputs: |
| | Cirrus-Logic CS5381* 1 (120dB SNR, Max. 192kHz/24bit) |
| | High Fidelity Headphone Amplifier: |
| | Texas Instruments 6120A2*1 (120dB SNR, 100dB THD+N @ Vcc+/-12V, RL=600ohm, f=1kHz) |
| Sample Rate and Resolution | Analog Playback Sample Rate and Resolution: |
| | 44.1K/48K/96K/192KHz @ 16/24bit |
| | Analog Recording Sample Rate and Resolution: |
| | 44.1K/48K/96K/192KHz @ 16/24bit |
| | S/PDIF Digital Output: |
| | 44.1K/48K/96K/192KHz @ 16/24bit, Dolby Digital |
| | ASIO 2.0 Driver Support: |
| | Supports 44.1K/48K/96K/192KHz @16/24bit with very low latency |
| I/O Ports | Analog Output Jack: |
| | RCA jack *2 (Front R / Front L), 6.30mm jack*1 (Headphone out) |
| | Analog Input Jack: |
| | 6.30mm jack *1 (Shared by 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 Coaxial/TOS-Link combo port supports 192KHz/24bit |
| | Front-Panel Header: |
| | Shared by Headphone out / 2 channels out / |
| | Microphone in |
| | S/PDIF Header: |
| | Connects to compatiable graphic cards for HDMI output |

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| Driver Features | Operation System: |
| | Windows 7/Vista/XP/MCE2005 |
| | Dolby Technologies: |
| | Dolby Digital Live |
| | Dolby Digital Live encodes any audio signal on PC in real-time to Dolby Digital (AC3) 5.1 surround sounds to your home theater environment through one single S/PDIF connection |
| | Dolby Headphone |
| | 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. |
| | Dolby Virtual Speaker |
| | Dolby Virtual Speaker technology simulates a highly realistic 5.1-speaker surround sound listening environment from as few as two speakers. |
| | Dolby Pro-Logic II |
| | Dolby Pro-Logic II is the well-known technology to process any native stereo or 5.1-channel audio into up to 6.1 channel output, creating a seamless, natural surround soundfield. |
| | Smart Volume Normalizer: |
| | 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: |
| | Virtual 7.1 speaker positioning |
| | Magic Voice: |
| | Xonar Essence STX provides 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 |
| | Karaoke Functions: |
| | Music Key-Shifting and Microphone Echo effects like professional Karaoke machine |
| | FlexBass: |
| | Professional Bass Management/Enhancement system |
| | 3D Sound Engines/APIs: |
| | Vista: DirectSound3D GX 2.5, DirectSound HW, DirectSound SW, A3D1.0, OpenAL generic modes, 128 3D sounds processing capability |
| | XP: DirectSound2.5 SW, A3D1.0, OpenAL generic modes, 128 3D sounds processing capability |
| Bundled Software Utility | |
| Accessories | 1 x 3.5mm-to-RCA adaptor cable (8ch) |
| | 1 x S/PDIF optical adaptors |
| | 1 x 6.3mm to 3.5mm stereo adapter |

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| Size (Width x Height) | 111.15 x 168.26mm |

## Product Information Online

For the latest product information, availability and purchasing details, please visit the product page:

**Product page:**
**https://www.comx-computers.co.za/XONAR_ESSENCESTX-A-Asus-Xonar-Essence-STX-Sound-Card-p-67653.php**

*Images and specifications are provided for reference and are subject to change without notice. E&OE.*

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