

Asus Xonar AE

ASUS Xonar AE Sound Board User Manual

Model: Xonar AE

1. INTRODUCTION

The ASUS Xonar AE is a PCI Express 7.1-channel gaming sound card designed to deliver high-fidelity audio. Featuring 192kHz/24-bit Hi-Res audio output and a 150ohm headphone amplifier, it provides immersive sound for gaming and multimedia. The card incorporates an ESS DAC with a 110dB signal-to-noise ratio (SNR) and an exclusive EMI back plate for exceptionally clear audio. Its Sonic Studio software offers comprehensive audio control, while Perfect Voice technology enhances in-game communication by reducing background noise.



Image: The ASUS Xonar AE Sound Board, showcasing both the circuit board and its protective EMI shield.

2. PACKAGE CONTENTS

- ASUS Xonar AE Sound Card
- S/PDIF optical adaptor (1x)

- Driver CD (1x)
- Quick Start Guide (1x)

3. SYSTEM REQUIREMENTS

- Available PCI Express slot
- Operating System: Windows 10 / 8.1 / 7 (32-bit/64-bit)
- Compatible with Desktop PCs

4. HARDWARE INSTALLATION

1. **Prepare Your System:** Before installation, power off your computer and disconnect the power cable. Open the computer case.
2. **Disable Onboard Audio:** It is recommended to disable your motherboard's integrated audio controller in the BIOS settings to prevent conflicts. Consult your motherboard manual for specific instructions.
3. **Locate a PCI Express Slot:** Identify an available PCI Express slot on your motherboard.
4. **Insert the Sound Card:** Carefully align the ASUS Xonar AE sound card with the chosen PCI Express slot and press it firmly until it is securely seated. Secure the card with a screw if your case requires it.
5. **Close the Case:** Once the card is installed, close your computer case and reconnect the power cable.

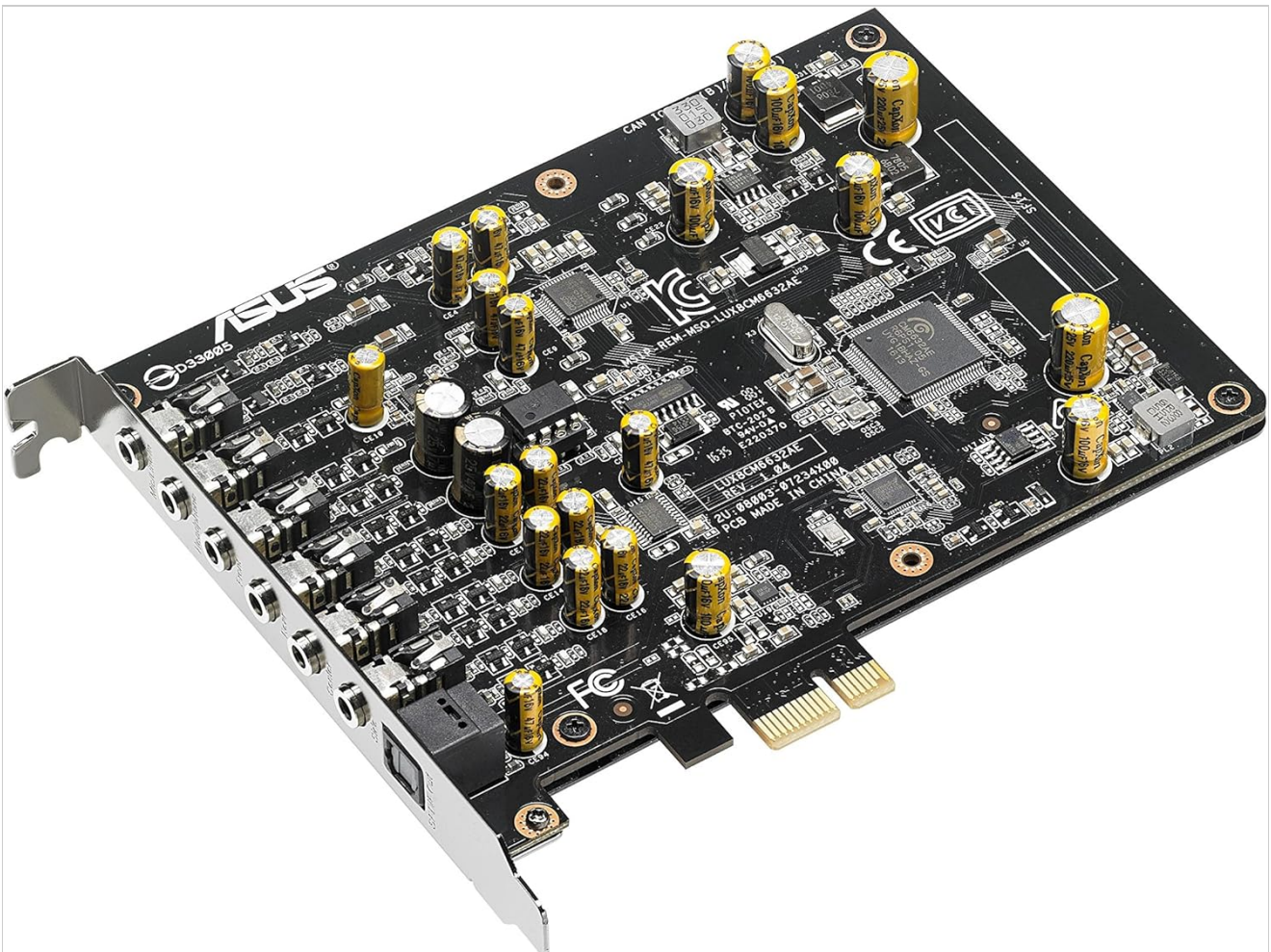


Image: Top-down view of the ASUS Xonar AE Sound Board's circuit board, showing various components and the PCI Express connector.

5. SOFTWARE INSTALLATION

1. **Power On:** Turn on your computer. Windows should detect new hardware.
2. **Install Drivers:**
 - Insert the provided Driver CD into your optical drive and follow the on-screen instructions.
 - Alternatively, for the latest drivers, visit the official ASUS support website (www.asus.com/support/) and search for "Xonar AE". Download and install the appropriate drivers for your operating system.
3. **Restart Computer:** After driver installation, restart your computer to ensure all changes take effect.
4. **Uninstall Previous Audio Drivers:** If you encounter issues, uninstall any previous audio drivers before installing the Xonar AE drivers.

6. AUDIO CONFIGURATION WITH SONIC STUDIO

The ASUS Xonar AE utilizes Sonic Studio software for comprehensive audio control. This intuitive, one-page interface allows you to customize various audio settings to optimize your listening experience.

Key Features:

- **Equalizer:** Adjust frequency bands to tailor sound output.
- **Virtual Surround:** Simulate multi-channel audio for headphones.
- **Bass Boost:** Enhance low-frequency sounds.
- **Reverb:** Add spatial effects.
- **Perfect Voice:** This technology eliminates background noise from your microphone input, ensuring clear communication during online gaming or voice chats.
- **Output Selection:** Manually select your desired audio output (e.g., Speakers, Headphones, S/PDIF).

Launch Sonic Studio from your desktop or system tray to access these settings.

7. CONNECTIVITY

The Xonar AE provides a range of input and output options for various audio devices.





Image: Detailed view of the ASUS Xonar AE Sound Board's input/output ports, including Mic/Line In, Headphone, Front, Rear, Center, Side, and S/PDIF Out.

Analog Output:

- 5x 3.5mm jacks (1/8") for:
 - Headphone out
 - Front out
 - Side out
 - Center-Subwoofer out

- Rear out

Analog Input:

- 1x 3.5mm jack (1/8") for Line-in/Mic-in combo

Digital Output:

- 1x S/PDIF out (1 x Optical (Toslink))

8. TROUBLESHOOTING

• No Sound Output:

- Ensure the sound card is properly seated in the PCI Express slot.
- Verify that the correct audio output device (e.g., "Speakers - XONAR SOUND CARD" or "Digital Output (S/PDIF) - XONAR SOUND CARD") is selected in your operating system's sound settings.
- Check speaker/headphone connections to the sound card.
- Confirm that drivers are correctly installed and updated.

• Sound Distortion or Noise:

- Ensure onboard audio is disabled in your system's BIOS.
- Uninstall any conflicting audio drivers from other devices.
- Check for proper grounding of your PC and audio equipment.
- Adjust settings within Sonic Studio, particularly equalizer or effects, which might be causing unwanted artifacts.

• Microphone Issues:

- Ensure the microphone is connected to the correct 3.5mm jack (Line-in/Mic-in combo).
- Check microphone input levels in your operating system's sound settings and within Sonic Studio.
- Utilize the Perfect Voice feature in Sonic Studio to reduce background noise.

• Driver Installation Failure:

- Download the latest drivers directly from the ASUS support website.
- Temporarily disable antivirus software during driver installation.
- Ensure your operating system is fully updated.

9. SPECIFICATIONS

Audio Interface	PCI Express
Audio Processor	C-Media USB2.0 6632AE High-Definition Sound Processor
Digital-to-Analog Converter (DAC)	ESS ES9023P (112dB DNR), Cirrus Logic CS4245 (104dB DNR), Cirrus Logic CS4361 (103dB DNR)
Output Signal-to-Noise Ratio (A-Weighted)	110dB (Front-out), 108 dB (Headphone-out)

Input Signal-to-Noise Ratio (A-Weighted)	103 dB
Output THD+N at 1kHz (Front-out)	<0.00158% (-96dB)
Input THD+N at 1kHz	<0.0022% (-93dB)
Frequency Response (-3dB, 24-bit/192kHz input)	10Hz to 65KHz
Analog Playback Sample Rate and Resolution	44.1K/ 48K/ 88.2K/ 96K/ 176.4K/ 192KHz @ 16/24bit
Analog Recording Sample Rate and Resolution	44.1K/ 48K/ 88.2K/ 96KHz @ 16/24bit
S/PDIF Digital Output	44.1K/ 48K/ 88.2K/ 96K/ 176.4K/ 192KHz @ 16/24bit
ASIO 2.2 Driver Support	44.1K/ 48K/ 96K/ 192KHz @ 24/32bit
Operating System Support	Windows 10/ 8.1/ 7 (32-bit/ 64-bit)
Product Dimensions	2.52 x 0.71 x 6.69 inches
Item Weight	2.5 ounces

10. WARRANTY INFORMATION

The ASUS Xonar AE Sound Board comes with a **1 Year Warranty** from the date of purchase. Please retain your proof of purchase for warranty claims. For detailed warranty terms and conditions, refer to the official ASUS warranty policy available on their website.

11. SUPPORT

For further assistance, technical support, driver downloads, and FAQs, please visit the official ASUS support website:

www.asus.com/support/

You can also find contact information for ASUS customer service in your region on their support portal.

Related Documents - Xonar AE

 <p>ASUS Xonar D2X <i>Audio Card</i> User's manual</p>	<p>ASUS Xonar D2X Audio Card User's Manual</p> <p>Comprehensive user manual for the ASUS Xonar D2X Audio Card, detailing installation, software setup, hardware features, driver configuration, and troubleshooting for enhanced PC audio performance.</p>
 <p>ASUS Xonar DX Audio Card User Manual</p>	<p>ASUS Xonar DX Audio Card User Manual: Installation, Features, and Guide</p> <p>Get detailed instructions for installing and using the ASUS Xonar DX high-fidelity audio card. This manual covers system requirements, hardware and software setup, connectivity, driver features, and troubleshooting for optimal audio performance.</p>
	<p>ASUS Xonar AE PCIe 7.1 Gaming Sound Card Quick Start Guide</p> <p>This guide provides system requirements, driver installation instructions, and connectivity options for the ASUS Xonar AE PCIe 7.1 Gaming Sound Card. It details how to connect various audio devices including microphones, headphones, and different speaker configurations.</p>
	<p>ASUS Essence STX II 7.1 High Fidelity Audio Card Quick Start Guide</p> <p>Comprehensive quick start guide for the ASUS Essence STX II 7.1 high-fidelity audio card and headphone amplifier, detailing installation, driver setup, I/O ports, connectivity, and op-amp customization.</p>
	<p>ASUS Xonar SE PCIe Audio Card Quick Start Guide</p> <p>A concise guide to installing and connecting the ASUS Xonar SE PCIe 5.1 channel and headphone amplifier audio card, covering hardware features, connectivity options, driver installation, and system requirements.</p>
 <p>ASUS Xonar U1 <i>External USB Audio Station</i> User's manual</p>	<p>ASUS Xonar U1 External USB Audio Station User Manual</p> <p>Comprehensive user manual for the ASUS Xonar U1 External USB Audio Station, detailing hardware setup, software installation, specifications, and troubleshooting for enhanced audio performance.</p>