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Creative Sound Blaster AudioPCI

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Version 1.0

November 2001

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Version 2.5, July 2001

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The following sections contain notices for various countries:

CAUTION: This device is intended to be connected by the user to a CSA/TUV/UL certified/listed IBM AT or compatible personal computer in the manufacturer's defined operator access area. Check the equipment operating/installation manual and/or with the equipment manufacturer to verify/confirm if your equipment is suitable for devices.

ATTENTION: Ce périphérique est destiné à être connecté par l'utilisateur à un ordinateur IBM AT certifié ou listé CSA/TUV/UL ou compatible, à l'intérieur de la zone d'accès définie par le fabricant. Consulter le mode d'emploi/guide d'installation et/ou le fabricant de l'appareil pour vérifier ou confirmer qu'il est possible de connecter d'autres périphériques à votre système.

Notice for the USA

FCC Part 15: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, this notice is not a guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try one or more of the following measures:

- ☐ Reorient or relocate the receiving antenna.
- ☐ Increase the distance between the equipment and receiver.
- ☐ Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- ☐ Consult the dealer or an experienced radio/TV technician.

CAUTION: To comply with the limits for the Class B digital device, pursuant to Part 15 of the FCC Rules, this device must be installed in computer equipment certified to comply with the Class B limits.

All cables used to connect the computer and peripherals must be shielded and grounded. Operation with non-certified computers or non-shielded cables may result in interference to radio or television reception.

Modifications

Any changes or modifications not expressly approved by the manufacturer of this device could void the user's authority to operate the device.

Notice for Canada

This apparatus complies with the Class "B" limits for radio interference as specified in the Canadian Department of Communications Radio Interference Regulations.

Cet appareil est conforme aux normes de CLASSE "B" d'interférence radio tel que spécifié par le Ministère Canadien des Communications dans les règlements d'interférence radio.

Compliance

This product conforms to the following Council Directive:

- ☐ Directive 89/336/EEC, 92/31/EEC (EMC), 73/23/EEC (LVD), as amended by directive 93/68/EEC.

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/Importer's Name: **Creative Labs, Inc.**

Manufacturer

/Importer's Address: **1901 McCarthy Boulevard
Milpitas, CA. 95035
United States
Tel: (408) 428-6600**

declares under its sole responsibility that the product

Trade Name: **Creative Labs**

Model Numbers: **CT5808**

has been tested according to the FCC / CISPR22/85 requirement for Class B devices and found compliant with the following standards:

EMI/EMC: ANSI C63.4 1992, FCC Part 15 Subpart B
Complies with Canadian ICES-003 Class B.

This device complies with part 15 of the FCC Rules.

Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesirable operation.

Ce matériel est conforme à la section 15 des règles FCC.

Son Fonctionnement est soumis aux deux conditions suivantes:

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Compliance Manager
Creative Labs, Inc.
December 23, 1998

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Manufacturer

/Importer's Name: **Creative Labs, Inc.**

Manufacturer

/Importer's Address: **1901 McCarthy Boulevard
Milpitas, CA. 95035
United States
Tel: (408) 428-6600**

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Model Numbers: **CT4810**

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EMI/EMC: ANSI C63.4 1992, FCC Part 15 Subpart B
Complies with Canadian ICES-003 Class B.

This device complies with part 15 of the FCC Rules.

Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
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Compliance Manager
Creative Labs, Inc.
March 24, 1999

About Your Creative Sound Blaster AudioPCI Card

Contents



Depending on your geographical region, your audio card product name may be one of the following:

- Creative Ensoniq AudioPCI
- Creative Sound Blaster 16 PCI
- Creative Sound Blaster AudioPCI 128
- VIBRA 128

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Introduction

Congratulations on your purchase of Creative Sound Blaster™ AudioPCI audio card. With its high PCI bus speed and high-quality audio performance, Creative Sound Blaster AudioPCI is the ideal choice for your computer.

Featuring 128-voice wave-table synthesis with high sample rate convertors, Creative Sound Blaster AudioPCI ensures a high level of audio quality and performance.

In addition, Creative Sound Blaster AudioPCI supports localized three-dimensional sound immersion and spatial sound enhancement in two-speaker environments. Full duplex operation also allows simultaneous audio recording and playback.

Creative Sound Blaster AudioPCI's compatibility with Sound Blaster PCI ensures you of near perfect Sound Blaster compatibility on legacy applications. Its use of the Plug and Play (PnP) technology also helps make Creative Sound Blaster AudioPCI one of the easiest audio cards to install.

We believe your Creative Sound Blaster AudioPCI card will give you years of enjoyment of high-quality sound on your PC.

Minimum System Requirements

- ☐ Genuine Intel® Pentium® 133 MHz or 166 MHz processor for Windows 98 Second Edition (SE)
Genuine Intel Pentium 166 MHz or faster processor for Millennium Edition (Me)
Genuine Intel Pentium 200 MHz or faster processor for Windows 2000
Genuine Intel Pentium 233 MHz or faster processor for Windows XP
- ☐ 16 MB RAM for Windows 98SE (32 RAM recommended)
32 MB RAM for Me
64 MB RAM for Windows 2000
128 MB RAM for Windows XP
- ☐ One free PCI slot
- ☐ Windows 98 SE, Windows Me, Windows 2000 or Windows XP
- ☐ Passive or amplified speakers (Cambridge SoundWorks speakers recommended)

Using This Guide




This guide explains the various hardware components on your audio card, and also shows you how to install the card into your computer.

Getting More Information

Refer to the Creative Sound Blaster AudioPCI online Help for more information and instructions on how to use the various applications found in your package.

Document Conventions

This guide uses the following conventions to help you locate and identify the information you need:

This	Represents
	This notepad icon indicates information that is of particular importance and should be considered before continuing.
	This alarm clock icon indicates that failure to adhere to directions may result in loss of data or damage to your system.
	The warning sign indicates that failure to adhere to directions may result in bodily harm or life-threatening situations.

About Your Audio Card



Jacks are one-hole connecting interfaces whereas connectors are multi-pin interfaces.



The Line Out jack supports:

- Speaker Out only if your card has the jumper JP1.

SPDIF Out only if your card does not have the jumper JP1.

Your audio card has these jacks and connectors which allow you to attach other devices:

Line In jack (Light Blue)

Connects external devices such as cassette, DAT, or Minidisc player) for playback and recording.

Microphone In jack (Pink)

Connects an external microphone for voice input.

Line Out or Speaker Out jack (Lime)

Connects powered or non-powered speakers.

OR

Line Out or SPDIF Out jack (Lime)

Connects powered speakers or digital devices. Refer to the online Help for the SPDIF Out mode selection.

Joystick/MIDI connector

Connects a joystick or a MIDI device. You can buy an optional MIDI kit that allows you to plug in the joystick and MIDI device simultaneously.

Telephone Answering Device/Modem connector

Connects a voice modem to transmit and receive audio signals.

CD Audio connector

Connects a CD-ROM drive using an MPC-3 CD audio cable.

AUX connector

Connects a TV card or second CD-ROM drive.

Front Line Out/Speaker Out jumper (JP1)

Selects between Line Out (default) or Speaker Out mode for the Green/Lime jack. Your card may not support Speaker Out and, thus, may not have this jumper.

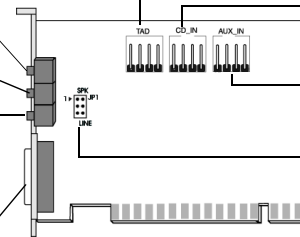


Figure 1: Jacks and connectors on your audio card.

Installing Hardware

Step 1: Prepare your computer



Turn off the main power supply and disconnect your computer's power cord. Systems using an ATX power supply unit with soft power off may still be powering the PCI slot. This can damage your audio card when it is inserted into the slot.



Remove any existing audio card or disable the onboard audio.

1. Turn off your computer and all peripheral devices.
2. Touch a metal plate on your computer to ground yourself and to discharge any static electricity, and then unplug the power cord from the wall outlet.
3. Remove the computer cover.
4. Remove the metal bracket from an unused PCI slot as shown in Figure 2. Put the screw aside for use later.

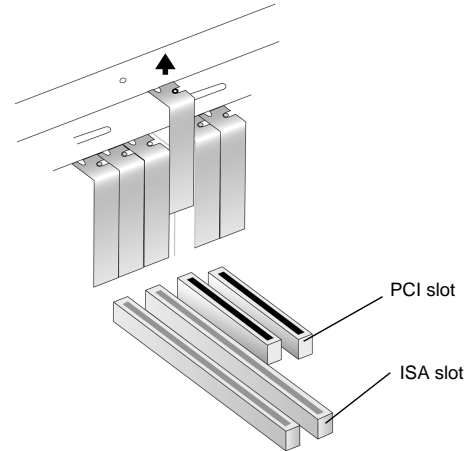


Figure 2: Removing a metal plate

Step 2: Install the audio card



Do not force the audio card into the slot. Make sure that the gold finger PCI connector on the Creative audio card is aligned with the PCI bus connector on the motherboard before you insert the card into the PCI expansion slot.

If it does not fit properly, gently remove it and try again.

1. Adjust the Line Out/Speaker Out jumper (JP1) as follows (if applicable):
 - ☐ If you are using powered speakers for the Line Out/Speaker Out jack, set the jumper as shown in Figure 3.
 - ☐ If you are using non-powered speakers for the Line Out/Speaker Out jack, set the jumper as shown in Figure 4.

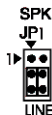


Figure 3: Line Out mode (default)

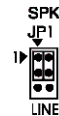


Figure 4: Speaker Out mode

2. Align the Creative audio card with the PCI slot and press the card gently but firmly into the slot as shown in Figure 5.
3. Secure the Creative audio card with the screw you had placed aside earlier.

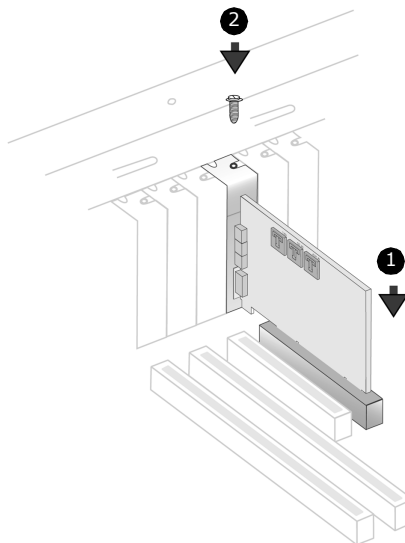


Figure 5: Aligning and securing the card against the slot.

Step 3: Connect the CD-ROM/DVD-ROM drive

For analog CD audio output:

- Connect the Analog CD audio cable from the Analog Audio connector on your CD-ROM/DVD-ROM drive to the CD Audio In connector on the Creative audio card as shown in Figure 6.

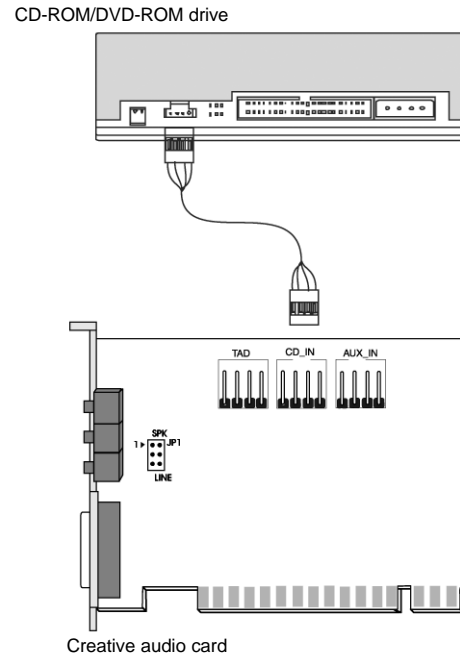


Figure 6: Connecting CD-ROM/DVD-ROM drives.

Installing Software

You need to install device drivers and applications to use Sound Blaster AudioPCI. To install these drivers and the bundled applications, use the following instructions. The instructions are applicable to all supported Windows operating systems.

1. After you have installed the Creative audio card, turn on your computer. Windows automatically detects the audio card and device drivers.
2. When prompted for the audio drivers, click the **Cancel** button.
3. Insert the Sound Blaster AudioPCI installation CD into your CD-ROM drive. The disc supports Windows AutoPlay mode and starts running automatically. If not, enable your CD-ROM drive's auto-insert notification feature
4. Double-click the **My Computer** icon on your Windows desktop.
5. In the **My Computer** window, right-click the CD-ROM drive icon.
6. On the shortcut menu, click **AutoPlay**.
7. Follow the instructions on the screen to complete the installation.
8. When prompted, restart your computer.

Uninstalling Your Audio Card

You may at times need to uninstall and then reinstall the Creative audio card to correct problems or change configurations. The following instructions tell you how to uninstall the Creative audio card in all Windows operating systems.

1. Click **Start -> Settings -> Control Panel**.
2. Double-click the **Add/Remove Programs** icon.
3. Click the **Install/Uninstall** tab. The **Add/Remove Programs** dialog box appears.
4. Click the Creative Sound Blaster audio drivers and then click the **Add/Remove** button.
5. When the **Confirm File Deletion** dialog box appears, click the **Yes** button.

Testing the Installation

After the drivers are installed, you can use Windows Media Player/Creative PlayCenter to test whether your audio card is working properly.

1. Start Windows Explorer, and then browse to any folder that contains a file with a.WAV extension.
2. Drag the.WAV file from Windows Explorer to Windows Media Player/PlayCenter. You should hear the selected sound being played. If you encounter any problems, consult the “Troubleshooting” section of the Creative Sound Blaster AudioPCI online Help.

General Specifications

Wave-Table Synthesis

- ☐ Creative synthesis engine
- ☐ Digital effects engine for reverb and chorus
- ☐ 128-voice polyphony and multi-timbral capability
- ☐ 2MB, 4MB and 8MB sample sets included

3D Audio Technology

- ☐ Support for Microsoft DirectSound and DirectSound3D audio technology in two-speaker mode
- ☐ Multi-Algorithm reverb and chorus

Memory Subsystem

- ☐ Utilizes system RAM for wave-table samples
- ☐ User configurable for 2MB, 4MB or 8MB

MIDI Interface/Joystick Port

- ☐ Built-in 15-pin MIDI interface (cable available separately)
- ☐ Compatible with Sound Blaster and MPU-401 UART modes
- ☐ IBM-compatible 15-pin joystick port with analog support

On-Board Connectors

- ☐ Line In
- ☐ Microphone In
- ☐ Line Out/Speaker Out or Line Out/SPDIF Out
- ☐ MIDI/Joystick port
- ☐ Telephone Answering Device In/Out
- ☐ CD Audio In
- ☐ Auxiliary In

Works With The Following Standards

- ☐ Windows 98SE/Me/2000/XP
- ☐ General MIDI
- ☐ Plug-and-Play
- ☐ Sound Blaster PCI
- ☐ Microsoft DirectSound, DirectSound3D, and derivatives
- ☐ EAX

Creative Mixer

- ☐ Software record and playback control of Master Volume and inputs from Music Synthesizer (MIDI), CD Audio, Line, Microphone, TAD and Digital Audio (Wave)
- ☐ Muting and balance control for individual playback sources
- ☐ Spatial audio (3D) control for Digital Audio and Music Synthesizer
- ☐ Reverb and chorus control for music synthesizer