CREATIVE CT4810 - VIBRA 128 16BIT SOUND CARD PCI USER MANUAL

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About Your VIBRA™ 128 Card

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Introduction

Congratulations on your purchase of Creative VIBRA™ 128 audio card. With its high PCI bus speed and high-quality audio performance, VIBRA 128 is the ideal choice for your computer.

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

In addition, VIBRA 128 supports localized three-dimensional sound immersion and spatial sound enhancement in two-speaker environments. Full duplex operation also allows simultaneous audio recording and playback.

VIBRA 128'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 VIBRA 128 one of the easiest audio cards to install.

We believe your VIBRA 128 card will give you years of enjoyment of high-quality sound on your PC.

Checking System Requirements

Your audio card requires at least:

- ❑ Pentium class 90MHz or 166MHz (recommended) computer with a free PCI slot
- ❑ 16 MB RAM for Windows NT 4.0 and Windows 95/98/Me (32 RAM recommended)
- ❑ 64 MB RAM for Windows 2000
- ❑ Windows NT 4.0, Windows 2000 or Windows 95/98/Me
- ❑ 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 VIBRA 128 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:

Text In	Represents
bold	Text that must be entered exactly as it appears.
italic	Title of a book or a placeholder, which represents the information you must provide.
UPPERCASE	Directory name, file name, or acronym.
< >	Symbols, letters, and key names on the keyboard.
	The notepad icon indicates information that is of particular importance and should be considered before continuing.
	The alarm clock designates a caution or warning that can help you avoid situations involving risk.

Preliminary Step for Windows 95 users

If you are using Windows 95, you need to find your Windows' version number before you can proceed to the section
"To Install VIBRA 128 in Windows 95/98/Me" on page 6.

To find your Windows' version number:

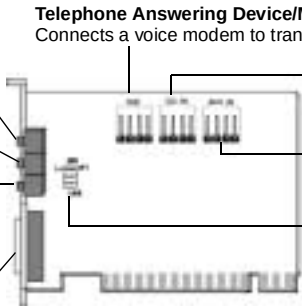
1. Switch on your computer.
2. Click the Start button, point to Settings, and then click Control Panel.

3. In the **Control Panel** window, double-click the **System** icon.
   Your Windows 95 version number is displayed in the **General** tabbed page of the **System Properties** dialog box.
4. Note the version number.
   The following are possible Windows 95 version numbers:
   - ❑ 4.00.950
   - ❑ 4.00.950A
   - ❑ 4.00.950B
   - ❑ 4.00.950C

On the Audio Card

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

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



Line In jack (Blue/Light Blue)
Connects external devices such as cassette, DAT, or Minidisc player) for playback and recording.

Microphone In jack (Red/Pink)
Connects an external microphone for voice input.

Line Out or Speaker Out jack (Green/Lime)
Connects powered or non-powered speakers.
OR
Line Out or SPDIF Out jack (Green/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.

To Install the Card and Related Hardware

1. Switch off your system and all peripheral devices, and then touch a metal plate on your computer to discharge any static electricity.
2. Unplug the power cord from the wall outlet.
3. Remove the cover of your computer to expose the motherboard and PCI slots.
4. Find an available PCI slot. Remove the cover plate at the back of the computer to create an opening for the audio card's jacks. Place the screw aside for later use.
5. (Only for certain models) Adjust the Line Out/Speaker Out jumper (JP1) as follows:
   - ❑ If you are using powered speakers for the Line Out/Speaker Out jack, set the jumper as shown in Figure 2.
   - ❑ If you are using non-powered speakers for the Line Out/Speaker Out jack, set the jumper as shown in Figure 3.

Figure 2: Line Out mode (default)

Figure 3: Speaker Out mode

6. Align your card's 32-bit slot connector with the expansion slot and press the card into the slot gently and evenly, with the external jacks facing the outside of the computer. Ensure that the bus connector has been pressed in as far as it will go and is sitting firmly inside the expansion slot.
7. Plug the CD-ROM audio cable into the CD Audio connector and plug the speakers into the Line Out/Speaker Out jack (see Figure 1). Make any other internal connections applicable for your computer, including modem or video card connections.
8. Replace the computer cover. Plug all components back into their respective outlets. You may now start the computer.

To Install VIBRA 128 in Windows 95/98/Me

- ❑ To Install Audio Drivers
  - ❑ For Version (4.00.950/A)
  - ❑ For Version (4.00.950B/C)
  - ❑ For Windows 98/Me
- ❑ To Install Software
- ❑ To Uninstall VIBRA 128

Note: When you start your computer after installing the audio card, Windows 95/98/Me automatically detects the audio card installed in your computer.

To Install Audio Drivers

For Version (4.00.950/A)

1. In the audio card's **New Hardware Found** dialog box, select the **Driver From Disk Provided By Hardware Manufacturer** option and click the **OK** button.
2. Insert the installation CD into the CD-ROM drive.
3. In the **Install From Disk** dialog box, type **D:\AUDIO***Language***DRIVERS\WIN9XDRV** (where D: represents your CD-ROM drive and *Language* represents the language of the software that you want to install) and click the **OK** button.
4. Follow the instructions on the screen to complete the audio driver installation.

For Version 4.00.950B/C

1. Insert the installation CD into the CD-ROM drive.
2. In the **Update Device Driver Wizard** dialog box, click the **Next** button.
3. Click the **Other Locations** option.
4. Type the path or click the Browse button to select the path of the drivers' location (that is, **D:\AUDIO***Language***DRIVERS\WIN9XDRV,** where D: represents your CD-ROM drive and *Language* represents the language of the software that you want to install) and click the **OK** button.

5. Click the **Finish** button.
   If the system prompts you for the installation CD again, click the **OK** button and repeat from Step 4.
   The audio drivers are copied to your system.

For Windows 98/Me

1. Insert the VIBRA 128 installation CD and click the **Next** button.
2. Select the **Search For The Best Driver For Your Device (Recommended)** option and click the **Next** button.
3. Clear all check boxes and check only the **Specify a Location** check box. Type or click the **Browse** button and point to the path of the drivers' location (that is,
   Windows 98: **D:\AUDIO***Language***DRIVERS\WIN9XDRV**
   Windows Me: **D:\AUDIO***Language***DRIVERS\WDMDRV,** where D: represents your CD-ROM drive and *Language* represents the language of the software that you want to install) and click the **Next** button.
4. Click the **Next** button to install the Windows 98/Me drivers.
5. Click the **Finish** button when the installation is complete.
6. Restart your system when prompted.

To Install Software

1. Make sure that the installation CD is in your CD-ROM drive. Double-click the **My Computer** icon on your Windows Desktop, then double-click on your **CD-ROM drive** icon.
2. The VIBRA 128 installation screen appears.
   Click the **OK** button.
3. Follow the instructions on screen to complete the installation.
4. Restart your system when prompted.

To Uninstall VIBRA 128

1. Click **Start** -> **Settings** -> **Control Panel**.
2. Double-click the **Add/Remove Programs** icon.

3. On the **Install/Uninstall** tabbed page, select **VIBRA 128**.
4. Click the **Add/Remove** button, and then click the **Yes** button when prompted to remove the software.

To Install VIBRA 128 in Windows NT 4.0/ Windows 2000

- ❑ To Install Audio Drivers and Software
- ❑ To Uninstall VIBRA 128
- ❑ If a Windows NT 4.0 Service Control Manager error message appears ...

To Install Audio Drivers and Software

1. Insert the installation CD into your CD-ROM drive.
   The installation screen appears.
2. Follow the instructions on the screen to complete the installation.

To Uninstall VIBRA 128

Windows NT 4.0

1. Click **Start** -> **Settings** -> **Control Panel**.
2. Double-click the **Multimedia** icon.
3. From the **Audio Devices** tabbed page, select any existing audio devices and then click **Remove**. Click **Yes** when prompted to remove the driver.
4. Close the **Multimedia Properties** window and restart your computer.

Windows 2000

1. Click **Start** -> **Settings** -> **Control Panel**.
2. In the **Control Panel** window, double-click the **Add/Remove Programs** icon.
3. In the **Add/Remove Programs** dialog box, select the VIBRA 128 entry, and then click the **Change/Remove** button.
4. After the uninstallation, click the **Close** button.

If a Windows NT 4.0 Service Control Manager error message appears ...

If error messages appear at system restart, it is because you removed an audio card from your computer after you have successfully installed the VIBRA 128 card. The drivers of the removed audio card cannot locate the card.

To solve this problem:

1. Log on to your computer as Administrator.
2. Click **Start** -> **Settings** -> **Control Panel**.
3. Double-click the **Multimedia** icon, and then click the **Devices** tab.
4. In the list, under these entries
   - ❑ Audio Devices
   - ❑ MIDI Devices And Instruments

   remove all items except
   - ❑ Audio for VIBRA 128 / SB AUDIO PCI
   - ❑ MIDI for VIBRA 128 / SB AUDIO PCI
5. Click the **OK** button to close the dialog box.
   The drivers are removed.

Testing the Installation

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

1. Click **Start** -> **Programs** -> **Creative** -> **Creative PlayCenter**.
2. Start Windows Explorer, and then browse to any folder that contains a file with a .WAV extension.
3. Drag the .WAV file from Windows Explorer to PlayCenter. You should hear the selected sound being played. If you encounter any problems, consult the “Troubleshooting in Windows 95/98/Me” section of the VIBRA 128 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	❑ General MIDI ❑ Plug-and-Play ❑ Sound Blaster PCI ❑ Microsoft DirectSound, DirectSound3D, and EAX
Creative Mixer	❑ 6 Channel Mixer control for access to CD, TAD, Microphone, Line, Music Synthesizer and Digital Audio ❑ Spatial audio (3D) control for Digital Audio and Music Synthesizer

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