AW200 Audio Card

User's Guide

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Disclaimer

FCC Class B Radio Frequency Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of 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, there is no 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 to correct the interference by one or more of the following measures:

- 1. Reorient or relocate the receiving antenna.

2. Increase the separation between the equipment and receiver.

3. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

4. Consult the dealer or an experienced radio/television technician for help.

- **Notice 1:**
The changes or modifications not expressly approved by the party responsible

for compliance could void the user's authority to operate the equipment.

- **Notice 2:**
Shielded interface cables must be used in order to comply with the emission limits.

Table of Contents

1.1 Features

The AW200 audio card has the following features:

- High performance VLSI sound ASIC
- Support DLS(Downloadable Sound)
- Compatible with DirectSound, DirectSound3D, Blaster, Sound Blaster Pro, and Sound Blaster 16 Emulation
- PC98 Specifications Compliant
- Avance ALSFM Synthesizer

- Internal modem connector
- PCI Power Management Interface(PPMI) Compliant
- PCI Bus Master for PCI Audio/PCI 2.1/2.2 Compliant PCI Interface

- Supports DDMA, Support for legacy DMAC Emulation
- 64-Voice Wavetable Synthesis w/ DLS-1 Support
- Programmable independent sample rate from 8 kHz up to 48 kHz for Record and Playback
- Supports Sound Blaster ADPCM decompression
- D Effect Sound Enhanced Normal & Digital Game Port Support

Software-controllable audio

- Supports various audio devices all controllable through software
- Adjusts master volume, CD audio, line-in, AUX, mono in, mono out, synthesis wave and microphone inputs

Stereo digitized voice channel

- 16-Bit Full-duplex for Concurrent Recording and Playback

1.2 Card Components
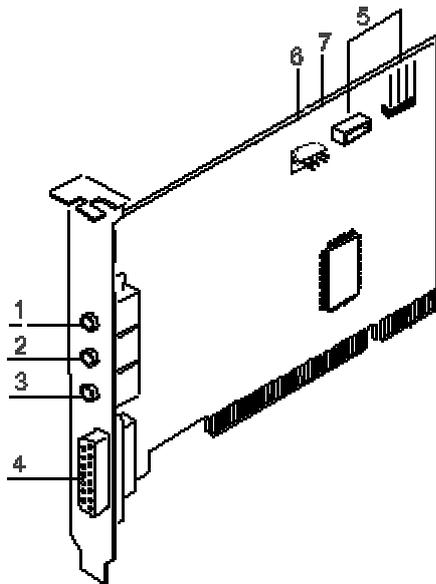
1 Line-out port	6 Mono in for internal Modem
2 Line-in port	7 Mono out for internal Modem
3 Microphone-in port	

Figure 1-1 AW200 Audio Card Layout

2.1 Installing the Card

Follow these steps to install the card:

1. Turn off the system and all the peripherals connected to it.
2. Remove the system cover to access the expansion slots.

Caution: Touch an unpainted portion of the system before handling components to discharge any static electricity that you may have accumulated.

3. Remove the metal bracket from an empty 16-bit expansion slot. Save the screw to secure the card.
4. Align the card with the slot guide and press it down into the slot.

Important: Make sure that the card is seated firmly in the slot.

5. Secure the card with a screw.

Caution: Do not neglect this step. The card uses the bracket for grounding.

6. Attach the required cables to the card.
7. Replace the system cover, connect the cables, and turn on the system.

2.2 Connecting Peripherals

To fully utilize the card functions, you may connect various peripheral devices that the card supports. Figure 2-1 shows the different devices that you can connect.
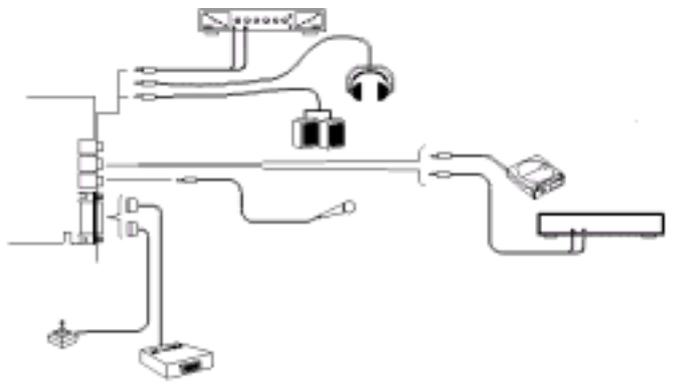
● *Figure 2-1 Connecting Peripheral Devices*

2.2.1 Audio Output Devices

The speaker-out/line-out port is available for different audio output devices such as external speaker, headphones and amplifiers.

2.2.2 Audio Input Devices

The audio line-in port is available for different audio input devices such as CD player, cassette, synthesizer, etc. The microphone-in port is available for the external microphone.

2.2.3 MIDI/Joystick

The Game/MIDI port on the card is compatible with the standard PC joystick. You may also choose to connect a MIDI adapter with a joystick port to use the MIDI and joystick simultaneously.

2.3 Setting Up in Windows 95/98

The card package may come with either a set of diskettes or a CD-ROM containing the Windows 95/98 drivers and software (including the Music Center application). Refer to their online help for details.

> *Note: Refer to your Windows 95/98 manual or online help for any questions on Windows 95/98*

2.3.1 Installing the Drivers and the Application

After turning on the system, Windows 95/98 begins loading and starts detecting new hardware installed on the system.

1. When Windows 95/98 detects the presence of the AW200 audio card, it begins to build the AW200 driver database. The New Hardware Found dialog box displays.
2. Select **Cancel** button and click . Windows 95/98 cancel the driver setup procedure.
3. After boot to Windows 95/98, insert the driver disk then AW200 driver setup wizard will lead you to finish all setup process.
4. Or you can select **Driver** button from disk setup menu.

> *Tip: Prepare the Windows 95/98 CD-ROM disk before setting up the sound card. Windows 95/98 will prompt you to insert the Windows 95/98 CD-ROM disk when you install the joystick or MIDI device.*

> *Note: If the file being copied is older than the file currently existing in your system, we recommend that you keep the existing file.*

4. Windows 95/98 makes changes to the system settings and begins detecting the following new hardware components:

- AS9200 External Midi(MPU401)Device

- AS9200 Internal Midi(OPL3)Device

- AS9200 Joystick Device
- AS9200 PCI Audio Device
- AS9200 Wave Audio Device

Windows 95/98 makes final changes to the system settings.

2.3.2 Install the Application

1. Insert AW200 driver disc, the setup program will auto-run, or browse CD and select x:\setup.exe.
   Select Application button from setup menu.

2.3.3 Removing the Drivers

Follow these steps to remove or uninstall the drivers:

1. Select AOpen icon from task bar and click the **Uninstall AW200** to uninstall the drivers.The uninstallation process automatically removes the drivers and changes the system registry settings.

> **Important:** *After removing the drivers, remember to remove the audio card when you shutdown from the current Windows 95/98 session; otherwise, Windows 95/98 will again detect the AW200 audio card at the next startup.*

2.4 Setting Up in NT4.0

The card package also comes with NT4.0 drivers. Please refer to your NT4.0 manual or online help for any questions on NT4.0.

2.4.1 Installing the Audio Drivers

Follow these steps to install the audio drivers:

1. Boot from Windows NT and insert the AW200 driver disc..
2. Browse and select X:\AW200\NT40\SETUP.EXE, then AW200 Windows NT driver setup wizard will lead you to finish all setup steps.
3. Restart Windows NT.

2.4.2 Install Joystick Driver

Follow these steps to install the MPU401 or joystick drivers:

3.1 Music Center

1. Select **MULTIMEDIA** from control panel and click on the Devices tab.

To startup this application, please click the Music Center icon.

2. Press the **ADD** button. Select **Microsoft Sidewinder 3D Pro Joystick** and press **OK**.
3. Place your NT4.0 installation CD and press **OK** (the default path is the i386 directory).
4. The Joystick Setup dialog box will pop up. Select the default configuration resource and press **OK**.
5. Click on the **Restart Now** button.

For more information, please refer to the online help.

3.2 MIDI Board

To startup this application software, please click the MIDI Board Icon.