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Chapter 1

Introduction

This mainboard has a **slot-1** processor socket for an **Intel processor cartridge**, and it also has a **socket-370** for an **Intel PPGA (Plastic Pin Grid Array) Celeron** processor. You can install either one of these processors according to the power and performance requirements that you need from your system. Note *that you cannot install two processors on this mainboard.*

Slot- 1 processors include the **SEPP (Single Edge Processor Package) Celeron, the Pentium-II, and the Pentium-III.** Clock rates run as high as **550 MHz.** Socket-370 processors are the **PPGA Celeron** which runs at clock rates up to **466 MHz.** The mainboard supports a system bus of **66 MHz** or **100 MHz.**

The mainboard uses the Xcel2000 chipset which provides **CPU Plug & Play** through firmware. The mainboard is highly integrated and includes a built-in **64-bit AGP Graphics Accelerator**, a built-in **PCI 3D Sound System**, and a built-in **IOBaseT/IOBaseTX Network Adapter.** A **V.90 Fax/Modem DAA module** is also shipped with the mainboard. In addition, it has a full set of **ATX I/O Ports** including two PS/2 ports, two USB ports, a parallel port, a serial port and a VGA port.

This mainboard has all the features you need to develop a powerful multimedia workstation that is network ready, and has built-in communications. The board is **micro-ATX sized** and has power connectors for **ATX** power supply units so it can be installed in a micro-ATX case.

Key Features

This key features of this mainboard include:

Slot-I Processor Support

- ◆ **Pentium-III** support for 450 MHz and 550 MHz clock rates
- ◆ **Pentium-II** support for 233 MHz to 450 MHz clock rates
- ◆ **SEPP Celeron** support for 266 MHz to 433 MHz clock rates
- ◆ Support for 66 MHz and 100 MHz FSB (Front Side Bus)
- ◆ All processors configured by **CPU Plug & Play**

Socket-370 Processor Support

- ◆ The **PPGA Celeron** provides Pentium-II performance with integrated level 1 and level 2 cache memory
- ◆ PPGA Celerons run from 300 MHz through to 466 MHz.
- ◆ Supports a 66 MHz front side system bus
- ◆ All Celerons are automatically configured using firmware

Memory Support

- ◆ Three DIMM slots for SDRAM 168-pin memory modules
- ◆ Support for 66 MHz & 100 MHz memory bus
- ◆ Maximum installed memory can be 3 x 256 MB = 768 MB

Expansion Slots

- ◆ One 32-bit PCI slot
- ◆ One 8/16-bit ISA slot

Onboard IDE channels

- ◆ Primary and Secondary PCI IDE channels
- ◆ Support for PIO (programmable input/output) modes
- ◆ Support for Bus mastering and UltraDMA 33/66 modes

Power Supply and Power Management

- ◆ Provides ATX power connector
- ◆ Support for Green PC standard, suspend switch, keyboard power on/off

- ◆ Supports Wake on Modem, Wake on LAN and Wake on Alarm

Built-in Graphics System

- ◆ Onboard 64-bit 3D **AGP Graphics Accelerator**
- ◆ Complies with AGP Ver. 2.0 with built-in 8-way/16-entry set-associative GART cache for AGP master
- ◆ Shared memory architecture allows a maximum of 8 MB main memory to act as frame buffer
- ◆ Supports high resolutions up to 1600 x 1200 pixels

Sound System

- ◆ Meets PC98 audio specification
- ◆ Full duplex playback and recording with built-in 16-bit CODEC
- ◆ HRTF 3D professional audio supports both Direct Sound 3D and A 3D compatible interface plus support for **4-channel speakers**
- ◆ Drivers support DOS/Windows 95/98/2000/NT 4.0
- ◆ Built-in 32 ohm earphone buffer and 3D surround
- ◆ Provides MPU-401 Game/MIDI port and legacy Sound Blaster 16 support
- ◆ Downloadable Wave-table Synthesizer supports Direct Music
- ◆ Digital Audio Interface (SPDIF In/Out) with **24-bit stereo**, 44KHz sampling rate and measured **120dB** audio quality
- ◆ Stereo Mixer supports analog mixing from CD-Audio, Line-In, and digital mixing from voice, FM/Wave-table and digital CD-Audio

Onboard I/O Ports

- ◆ Provides PC99 Color Connector for easy identification of peripheral devices
- ◆ Floppy disk drive port with 1Mb/s transfer rate
- ◆ One serial ports with 16550-compatible fast UART
- ◆ One parallel port with support for ECP and EPP
- ◆ Two USB ports & two PS/2 ports
- ◆ One infrared port

Hardware Monitoring

- ◆ Built-in hardware monitoring for CPU temperature and fan speeds
- ◆ Supports AMI's Desktop Client Manager (ADCM)

Built-in LAN Adapter

- ◆ Onboard **IOBaseT/IOBaseTX LAN Adapter**
- ◆ LAN controller integrates Fast Ethernet MAC and PHY compliant with IEEE802.3uIOBASE-TX, IOBASE-T and ANSI X3T12 TP-PMD standards
- ◆ Compliant with ACPI 1.0 and the Network Device Class Power Management 1.0
- ◆ High Performance provided by 100 Mbps clock generator and data recovery circuit for 100 Mbps receiver

Fax/Modem DAA Module

- ◆ **56 Kbps Fax/Modem DAA module**
- ◆ Supports V.90, V.34, V.32bis, V.32, V.22bis, V.22
- ◆ Supports Auto Fallback and MNP 5, V.42bis data compression with 115200 compatible Virtual UART
- ◆ Requires 16 MB RAM and WIN 95/98/NT

Onboard Flash ROM

- ◆ Provides plug and play function for automatic CPU and board configuration
- ◆ Supports plug and play configuration of peripheral devices and expansion cards
- ◆ Built-in virus protection using **Trend's ChipAway Virus** which ensures that the entire boot process is virus protected.

Bundled Software

- ◆ **AMI Desktop Client Manager** supports hardware monitoring on stand alone systems or over a network
- ◆ **PC-Ciliin** provides automatic virus protection under Windows 95/98
- ◆ **SuperVoice** Fax/Modem software

- ◆ **Gamut** provides professional audio application included MP3 encoding/playback
- ◆ **MediaRing Talk** provides PC to PC base inter-net phone communication
- ◆ **WordPerfect Suite 8** is a windows version office application

Dimensions

- ◆ Micro-ATX form factor (24.4cm x 22cm)

Package Contents

Your mainboard package ships with the following items:

- Mainboard
- This User's guide
- IDE cable
- Floppy diskette drive cable
- Fax/Modem DAA module
- Network adapter extension bracket
- Support software CD-ROM

Optional Accessories

You can purchase the following optional accessories for this mainboard.

- Digital Audio extension bracket

Static Electricity Precautions

1. Components on this mainboard can be damaged by static electricity. Take the following precautions when unpacking the mainboard and installing it in a system.
2. Keep the mainboard, and other components, in their original static-proof packaging until you are ready to install them.
3. During an installation, wear a grounded wrist strap if possible. If you don't have a wrist strap, frequently discharge any static electricity by touching the bare metal of the system chassis.
4. Handle the mainboard carefully by the edges. Avoid touching the components unless it is absolutely necessary. During the installation lay the mainboard on top of the static-proof packaging with the component side facing upwards.
5. Inspect the mainboard for any damage caused during transit. Ensure that all the components that are plugged into sockets are correctly seated.
6. If you suspect that the mainboard has been damaged, do not apply power to the system. Contact your mainboard vendor and report the damage.

Chapter 2

Mainboard Installation

To install this mainboard into your system, follow the procedures in this chapter:

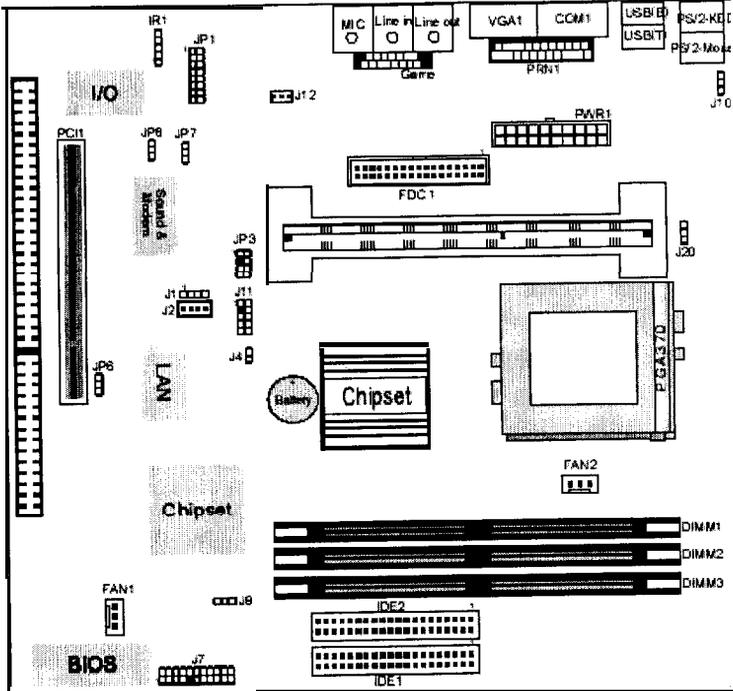
- ❑ Identify the mainboard components
 - a Install the correct processor
- ❑ Install one or more memory modules
- ❑ Verify that any jumpers or switches are at the correct setting
- ❑ Install the mainboard in the system chassis
- ❑ Install any extension brackets or cables to the mainboard headers
- ❑ Install any other devices and make the appropriate connections to the mainboard headers.

Note: 1. Before installing the mainboard, you must ensure that jumper J9 is set to the Normal setting. See this chapter for information on locating J9 and changing the jumper setting.

2. While installing the mainboard, please make sure the AC power cord is unplugged before the full system is installed completely, Otherwise, it may destroy stuffs unpredictably, due to the power-on trigger event of power management.

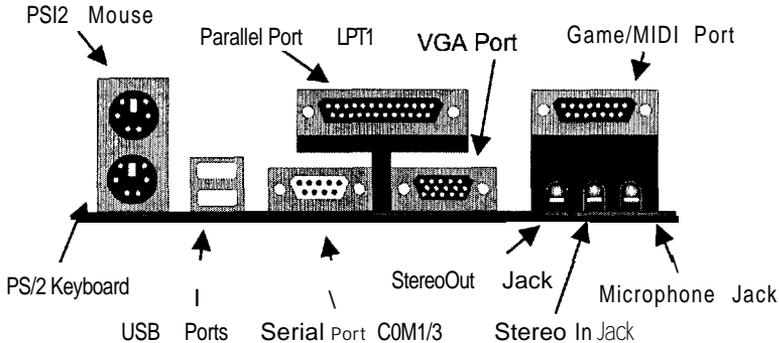
Mainboard Components

Use the diagram below to identify the major components on your mainboard.



I/O Ports

The illustration below shows a side view of the I/O ports installed on the mainboard.



Install the Processor

This mainboard has a Slot-1 which can be installed with any Slot-1 processor cartridge including the Pentium-III, the Pentium-II, and the SEPP Celeron. It also has a Socket-370 which can be installed with the new Celeron processor which is shipped in a PPGA (Plastic Pin Grid Array) package. **To ensure reliability, make sure that your PPGA Celeron processor is fitted with a heatsink/cooling fan assembly.**

You can install a Slot-1 processor or a PPGA Celeron. You cannot install a PPGA and a Slot-1 processor cartridge together. Take care that you do not try to install a Socket-7 processor into the Socket-370. A Socket-7 processor such as the Pentium-MMX, or the AMD

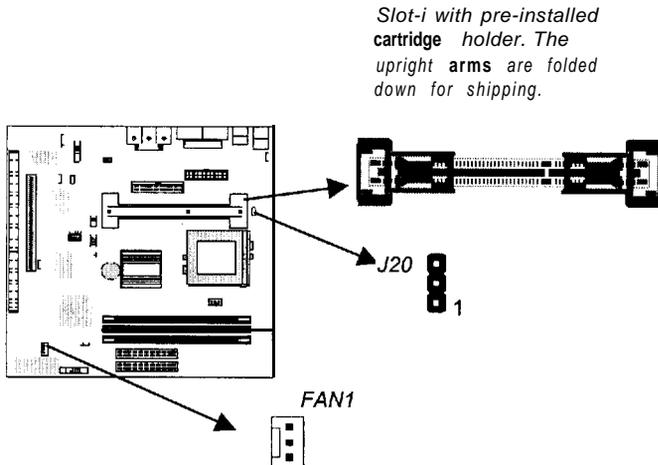
K5/K6 does not fit in the socket-370. The following table lists the processors that are currently supported by this mainboard. New processors may be released after this manual is printed.

Processor Cartridge	Clock Rate MHz	Processor Socket	System Bus MHz
Pentium-III	550	Slot-1	100
Pentium-III	500	Slot-1	100
Pentium-III	450	Slot-1	100
Pentium-II	450	Slot-1	100
Pentium-II	400	Slot-1	100
Pentium-II	350	Slot-1	100

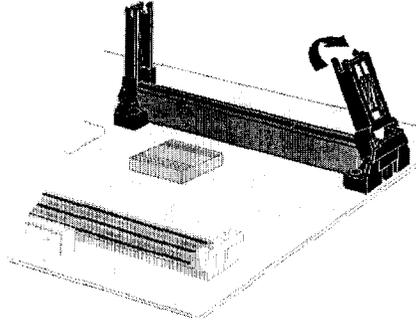
Pentium-II	333	Slot-1	66
Pentium-II	300	Slot-1	66
Pentium-II	266	Slot-1	66
Pentium-II	233	Slot-1	66
SEPP Celeron	433	Slot-1	66
SEPP Celeron	400	Slot-1	66
SEPP Celeron	366	Slot-1	66
SEPP Celeron	333	Slot-1	66
SEPP Celeron	300A	Slot-1	66
SEPP Celeron	300	Slot-1	66
SEPP Celeron	266	Slot-1	66
PPGA Celeron	466	Socket-370	66
PPGA Celeron	433	Socket-370	66
PPGA Celeron	400	Socket-370	66
PPGA Celeron	366	Socket-370	66
PPGA Celeron	333	Socket-370	66
PPGA Celeron	300	Socket-370	66

Installing a Slot-I Processor Cartridge

1. Locate Slot-1, FAN1, and J20 on the mainboard.



2. The Slot-1 is installed with a cartridge holder. The upright struts of the cartridge holder are folded down for shipping. Pull the struts upwards so that they are in the upright position.

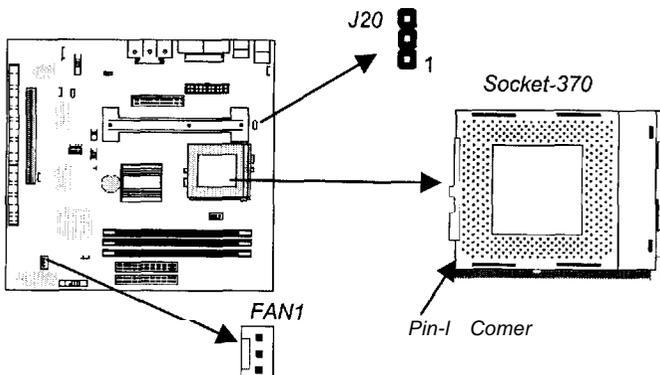


3. Insert the processor cartridge into the cartridge holder. Follow the instructions given with your processor cartridge. The edge connector on the cartridge has a notch so that it only fits into the Slot-1 in the correct way.
4. Locate the cooling fan power supply FAN1 . Connect the cable from the processor cartridge cooling fan to FAN1 .
5. Locate the jumper J20. Use this jumper to short pins 2-3 if you have installed a Slot- 1 processor.
6. On this mainboard, you can configure the processor by entering the correct settings in the BIOS setup utility.

Installing a Socket-370 Processor

The Celeron processor installs into the ZIF (Zero Insertion Force) Socket-370 on the mainboard.

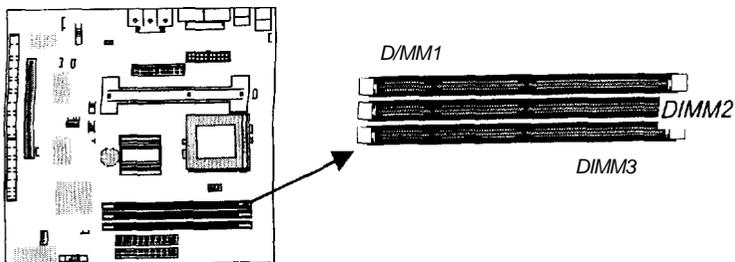
1. Locate the Socket-370, FAN1, and J20. Pull the locking lever out from the socket and swing it to the upright position.



2. On the Celeron processor, identify the pin- 1 corner by noting that it has a slight bevel.
3. On the Socket-370, identify the pin-1 corner. The pin-1 corner is on the same side as the locking lever, closest to the top of the lever when it is in the locked position.
4. Match the pin-1 corners and insert the Celeron processor into the socket. No force is required and the processor should drop into place freely.
5. Swing the locking lever down and hook it under the catch on the side of the socket. This locks the Celeron processor in the socket.
6. Locate the jumper 520. Use this jumper to short pins 1-2 if you have installed a Socket-370 processor.
7. If the Celeron processor is installed with a cooling fan assembly, connect the cable from the fan to the CPU fan power connector FAN 1.

Install Memory

The mainboard has three DIMM slots which can be installed with memory modules. You must install at least one memory module in order to use the mainboard. You must install the first memory module into DIMM1 so that it can share memory with the onboard VGA system.



For this mainboard, you must use 168-pin, 3.3V memory modules installed with SDRAM memory chips. If you are using a processor that runs on a 100 MHz system bus, you must use memory that

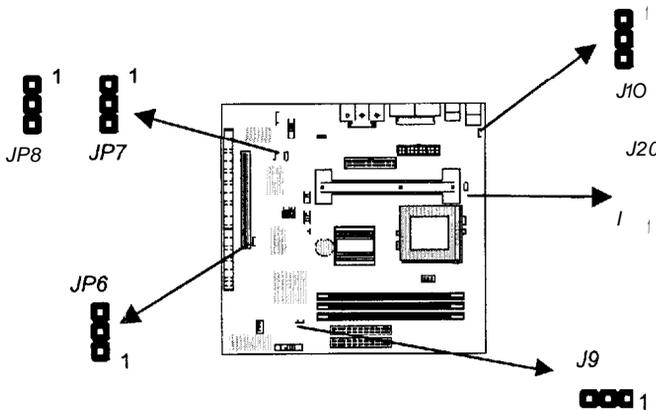
operates on a 100 MHz memory bus (PC-100 memory). If you are using a processor that runs on a 66 MHz system bus, you must use memory that operates on a 66 MHz memory bus. You can install any size of memory module from 16 MB up to 256 MB, so the maximum memory size is $3 \times 256 \text{ MB} = 768 \text{ MB}$.

The edge connectors on the memory modules have cut outs, which coincide with struts in the DIMM slots, so the memory modules can only be installed in the correct way.

On the DIMM slot, pull the locking latches at either end of the slots outwards. Position the memory module correctly and insert it into the DIMM slot. Press the module down into the slot so that the locking latches lever inwards and lock the module in place.

Set the Jumpers

Jumpers are sets of pins which can be connected together with jumper caps. The jumper caps change the way the mainboard operates by changing the electronic circuits on the mainboard. If a jumper cap connects two pins, we say the pins are **SHORT**. If a jumper cap is removed from two pins, the pins are **OPEN**.



Jumper J10: Keyboard Power On Selector

If you enable the keyboard power on feature, you can use hot keys on your keyboard as a power on/off switch for the system.

Note: Make sure that the system can provide IA on +5 VSB (+5 V Standby) signal before using the Keyboard Power On function.

Function	Jumper Setting
Disable Keyboard Power On	Short Pins 1-2
Enable Keyboard Power On	Short Pins 2-3

Jumper J9: Clear CMOS Memory

Use this jumper to clear the contents of the CMOS memory. You may need to clear the CMOS memory if the settings in the setup utility are incorrect and prevent your mainboard from operating. To clear the CMOS memory, disconnect all the power cables from the mainboard and then move the jumper cap into the CLEAR setting for a few seconds.

Function	Jumper Setting
Normal Operation	Short Pins 1-2
Clear CMOS Memory	Short Pins 2-3

Jumper JP6: Enable/Disable Onboard LAN

Use this 3-pin jumper to enable or disable the onboard network adapter.

Function	Jumper Setting
Enable Onboard LAN	Short Pins 1-2
Disable Onboard LAN	Short Pins 2-3

Jumper JP7: Enable/Disable Onboard Audio

Use this 3-pin jumper to enable or disable the onboard audio system. If you install a different audio system on an expansion card, you must disable the onboard audio system. If you use this jumper to disable the audio system, it automatically disables the onboard Fax/Modem, even if the Fax/Modem jumper JP8 is enabled.

Function	Jumper Setting
Disable Audio/Modem	Short Pins 1-2
Enable Audio	Short Pins 2-3

Jumper JP8: Enable/Disable Onboard Fax/Modem

Use this 3-pin jumper to enable or disable the onboard Fax/Modem. If the audio jumper JP7 is disabled, the Fax/Modem is also disabled, no matter the setting of JP8.

Function	Jumper Setting
Enable Onboard Modem	Short Pins 1-2
Disable Onboard Modem	Short Pins 2-3

J20: Select Slot-1 or Socket-370 Processor

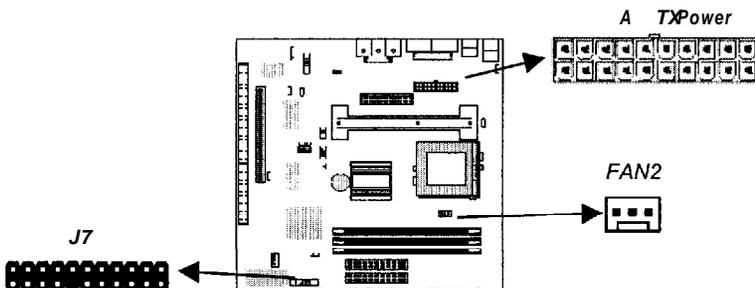
Use this 3-pin jumper to prepare the mainboard to use either a Slot-1 processor or a Socket-370 processor.

Function	Jumper Setting
Socket-370 Processor	Short Pins 1-2
Slot-1 Processor	Short Pins 2-3

Install the Mainboard

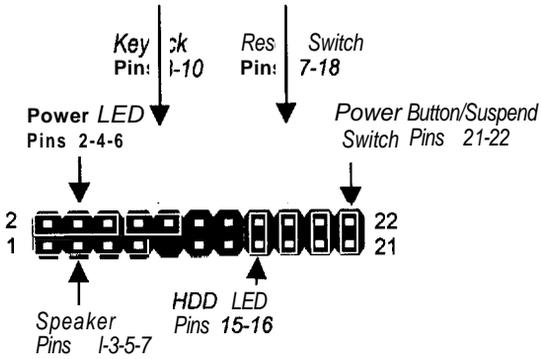
Install the mainboard into the system chassis. This mainboard uses the micro-ATX format with a twin-tier of I/O ports. Special micro-ATX cases are available with a reduced number of expansion slots and a smaller power supply unit. Ensure that your case has an I/O template that can be used by this mainboard.

Install the mainboard into the unit case. Follow the instructions provided by the case manufacturer using the screws and mounting points provided in the chassis.



Connect the power cable from the power supply unit to the power connector ATX Power on the mainboard. If the system chassis is installed with a cooling fan, connect the cable from the cooling fan to the chassis fan power connector on the mainboard FAN2.

Connect the case switches and indicator LEDs to the bank of switch and LED connectors J7. See the illustration below for a guide to the pin functions of the J7 connector.



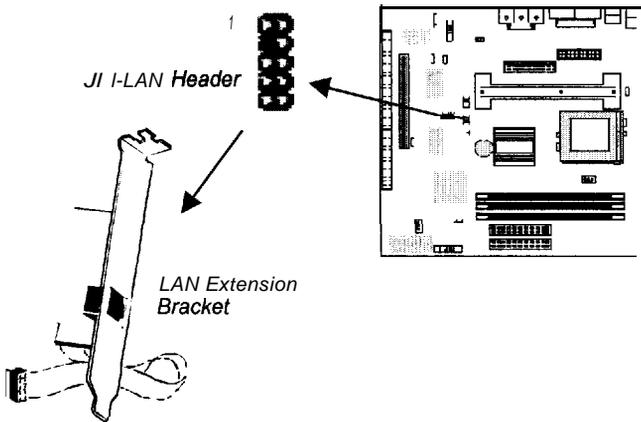
Install the Extension Brackets

The extension brackets are used to transmit features on the mainboard to external connectors that can be fixed to the system chassis. Follow the steps below to install the extension brackets.

Note: All the ribbon cables used on the extension brackets carry a red stripe on the pin-1 side of the cable.

LAN Adapter Extension Bracket

This bracket supports an RJ45 network connector and connects to the built in J1 1 LAN header on the mainboard.

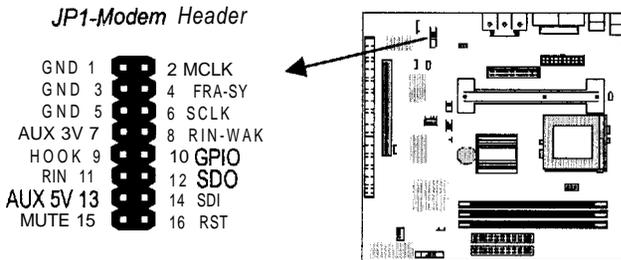


1. On the mainboard, locate the J1 1 LAN header for this bracket.
2. Plug the cable from the bracket into the J1 1 LAN header.
3. In the system chassis, remove a blanking plate from one of the expansion slots and install the extension bracket in the slot. Use the screw that held the blanking plate in place to secure the extension bracket.

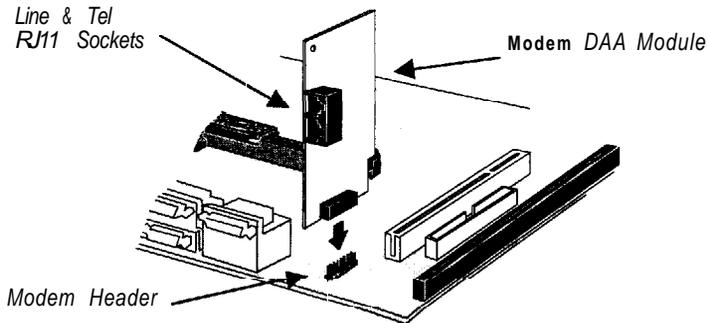
Fax/Modem Module

The Fax/Modem DAA module plugs directly into the mainboard adjacent to an expansion slot in the system chassis. When you remove the blanking plate from the system chassis, you can access

the LINE and TEL RJ1 1 connectors on the metal edge of the Fax/Modem DAA module.



1. Locate the JP 1 modem header on the mainboard.
2. Plug the Fax/Modem DAA module into the JP1 modem header.
3. Remove the blanking plate adjacent to the modem header.

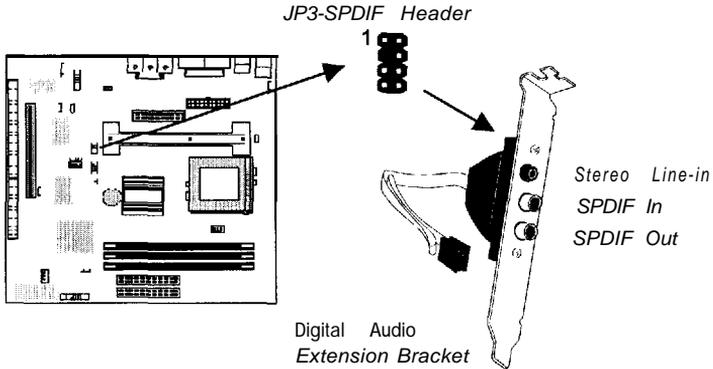


Optional Extension Brackets

For this mainboard, you can also obtain an SPDIF digital audio extension bracket. Install this by following the steps below.

Digital Audio Extension Bracket

This bracket has two RCA jacks for digital audio in and digital audio out, and an auxiliary jack for a Stereo Line-in device.

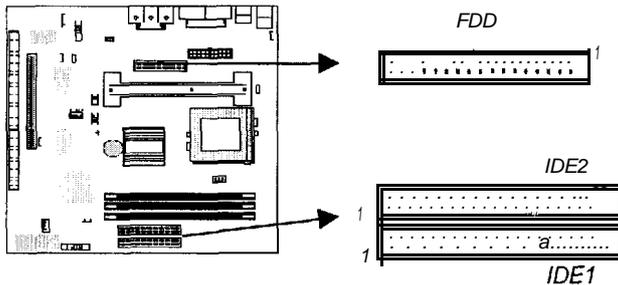


1. On the mainboard, locate the JP3 SPDIF header for this bracket.
2. Plug the cable from the bracket into the JP3 SPDIF header.
3. In the system chassis, remove a blanking plate from one of the expansion slots and install the extension bracket in the slot. Use the screw that held the blanking plate in place to secure the extension bracket.

Note: If you install the Digital Audio Extension Bracket, you cannot use the Internal SPDIF/In header (See Internal Sound Connections later in this chapter).

Install Other Devices

Install and connect any other devices in the system following the steps below.



Floppy Disk Drive

The mainboard ships with a floppy disk drive cable that can support one or two drives. Drives can be 3.5" or 5.25" wide, with capacities of 360K, 720K, 1.2MB, 1.44MB, or 2.88MB.

Install your drives and supply power from the system power unit. Use the cable provided to connect the drives to the floppy disk drive header FDD.

IDE Devices

IDE devices include hard disk drives, high-density diskette drives, and CD-ROM/DVD drives.

The mainboard ships with an IDE cable that can support one or two IDE devices. If you connect two devices to a single cable, you must configure one of the drives as Master and one of the drives as Slave. The documentation of the IDE device will tell you how to configure for Master or Slave.

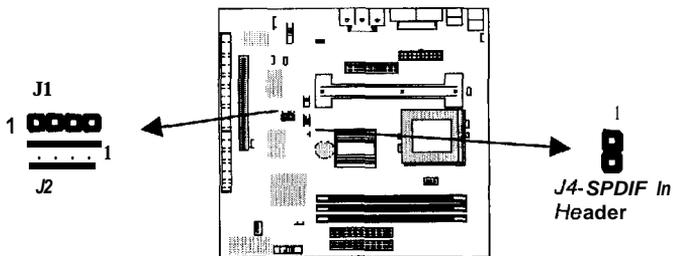
Install the device(s) and supply power from the system power unit. Use the cable provided to connect the device(s) to the Primary IDE channel connector IDE1 on the mainboard.

If you want to install more IDE devices, you can purchase a second IDE cable and connect one or two devices to the Secondary IDE channel connector IDE on the mainboard. If you have two devices on the cable, one must be Master and one must be Slave.

Internal Sound Connections

If you have installed a CD-ROM drive or a DVD drive, you can connect the sound output of the drive to the built-in sound system.

On the mainboard, locate the two 4-pin connectors for J1 and J2. There are two kinds of connector because different brands of CD-ROM drive have different kinds of cable connectors on their audio output cable. Connect the cable to the appropriate connector.



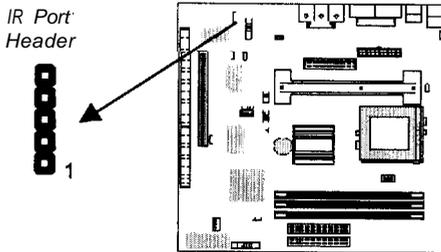
Digital Audio Connection

If your CD-ROM or DVD drive has 24-bit digital audio output, and your system is equipped to output sound through the SPDIF digital audio connector, you can purchase an internal digital audio cable to connect the digital output from the drive to the digital audio input connector on the mainboard.

Note: Do not use the Digital Audio In header, If you have already installed the optional Digital Audio Extension Bracket.

Infrared Port

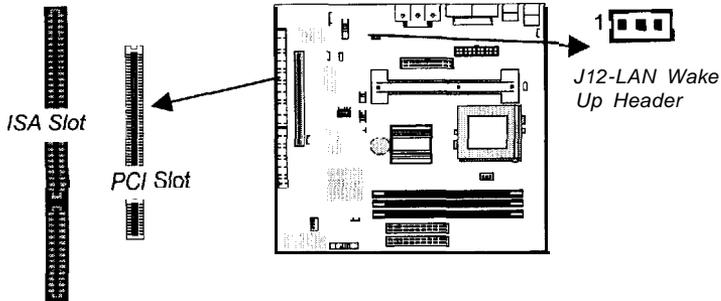
You can install the mainboard with an infrared port. You can purchase this option from third-party vendors.



1. On the mainboard locate the infrared port header IR.
2. If you are adding an infrared port, connect the ribbon cable from the port to the header IR and then secure the port to an appropriate place in your system chassis.

Expansion Slots

This mainboard has one PCI 32-bit expansion slot and one 8/1 6-bit ISA slot. The slots are shared. This means that you can only use one of the slots at one time.



Follow the steps below to install a PCI or ISA expansion card.

1. Locate the PCI or ISA slot on the mainboard.
2. Remove the blanking plate from the appropriate expansion slot on the system chassis.
3. Install the edge connector of the expansion card into the slot and press it quite firmly down so that it is seated correctly.
4. Secure the bracket of the expansion card into the expansion slot in the system chassis using the screw that held the blanking plate in place.

LAN Wake Up

In ATX power system you can configure your system so that it powers down by software and can be resumed by alarms.

If you have installed a LAN adapter expansion card, connect the card to the LAN Wake Up header J12. This allows incoming traffic to resume the system from a software power down.

Chapter 3

BIOS Setup

Introduction

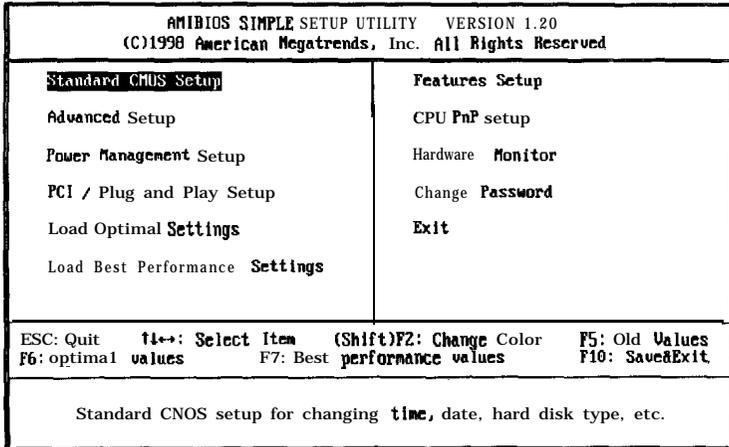
The BIOS setup utility stores information about your computer such as the date and time, the kind of hardware you have installed, and so on. Your computer uses this information to initialize all the components at boot up time, and make sure that everything runs smoothly.

If the information in the setup utility is incorrect, it may cause your system to malfunction. It can even stop your computer from booting properly. If this happens, you can use the clear CMOS jumper to clear the CMOS memory area that is used to store the setup information, or you can hold down the **End** key while you reboot your computer. Holding down the **End** key also clears the setup information.

You can run the setup utility and manually make changes to the setup utility. You might need to do this to configure some of the hardware that you add to the mainboard, such as the CPU, the memory, disk drive, etc.

Running the Setup Utility

Each time your computer starts, before the operating system is booted, a message appears on the screen that prompts “*Hit if you want to run SETUP*”. When you see this message, press the **Delete** key and the Mainmenu page of the setup utility appears on your monitor.



You can use the cursor arrow keys to highlight any of the options on the **Mainmenu** page. Press **Enter** to select the highlighted option. To leave the setup utility, press the **Escape** key. Hold down the **Shift** key and press F2 to cycle through the optional color schemes of the setup utility.

Some of the options on the **Mainmenu** page lead to tables of items with installed values. In these pages, use the cursor arrow keys to highlight the items, and then use the **PgUp** and **PgDn** keys to cycle through the alternate values for each of the items. Other options on the **Mainmenu** page lead to dialog boxes which require you to answer Yes or No by hitting the Y or N keys.

If you have already made changes to the setup utility, press **F10** to save those changes and exit the utility. Press F5 to reset the changes to the original values. Press F6 to install the setup utility

with a set of default values. Press F7 to install the setup utility with a set of high-performance values.

Standard CMOS Setup Page

Use this page to set basic information such as the date and time, the IDE devices, and the diskette drives. If you press the F3 key, the system will automatically detect and configure the hard disks on the IDE channels.

AMIBIOS SETUP - STANDARD CMOS SETUP	
(C)1998 American Megatrends, Inc. All Rights Reserved	
Date (mm/dd/yyyy):	Mon 01/12/1999
Time (hh/mm/ss) :	12:00:44
	LBA B l k P I D 32Bit
Type	Size Cyln Head W Pcom Sec Mode Mode Mode Mode
Pri Master :	Not Installed
Pri Slave :	Not Installed
Sec Master :	Not Installed
Sec Slave :	Not Installed
Floppy Drive A:	Not Installed
Floppy Drive B:	Not Installed
Month: Jan - Dec	ESC : Exit
Day: 01 31	F1 : select Item
Year: 1901 - 2099	FU/PD/+/- : Modify
	(Shift)F2 : Color
	F3 : Detect All HDD

Date & Time Use these items to install your system with the correct date and time

Pri Master Use these items to configure devices on the primary and secondary IDE channels. To
Pri Slave configure a hard disk drive, choose *Auto*. If the
Sec Master *Auto* setting fails to find a hard disk drive, set it to
Sec Slave *User*, and then fill in the hard disk characteristics (Size, Cyls, etc.) manually. If you have a **CD-ROM** drive, select the setting **CDROM**. If you have an **ATAPI** device with removable media (e.g. a **ZIP** drive or an **LS-120**) select **ARMD**.

Floppy Drive A Use these items to set the size and capacity of
Floppy Drive B the floppy diskette drive(s) installed in the system.

Advanced Setup Page

Use this page to set more advanced information about your system. Take some care with this page. Making changes can affect the operation of your computer.

AMIBIOS SETUP - ADVANCED SETUP	
(C)1998 American Megatrends, Inc. All Rights Reserved	
Share Memory Size	Disabled
Trend ChipAwayVirus	Enabled
1st Boot Device	IDE-0
2nd Boot Device	Floppy
Try Other Boot Devices	Yes
S.M.A.R.T. for Hard Disks	Disabled
BootUp Num-Lock	On
Floppy Drive Swap	Disabled
Floppy Drive Seek	Disabled
Password Check	Setup
Boot To OS/2 Over 64MB	No
Internal Cache	Reserved
System BIOS Cacheable	Disabled
SDRAM Speed	8ns
Refresh Queue Depth	4
SDRAM CAS Latency	3T
Graphic Win Size	64M
ESC : Quit F10 : Select Item F1 : Help PU/PD/+/- : Modify F5 : Old Values (Shift) F2 : Color F6 : Load BIOS Defaults F7 : Load Setup Defaults	

Share Memory Size	This item lets you allocate a portion of the main memory for use by the onboard VGA system.
Trend ChipAway virus	This mainboard has built-in virus protection in the firmware. Use this item to enable or disable the built-in virus protection.
1st Boot Device 2nd Boot Device	Use these two items to determine the order and priority that your computer follows to load an operating system at start-up time.
Try Other Boot Device	If you enable this item, the system will also search for other boot devices if it fails to find an operating system from the first two locations.
S.M.A.R.T. for Hard Disks	Enable this item if your hard disk(s) supports SMART (Self-Monitoring, Analysis and Reporting Technology).
BootUp Num-Lock	This item determines if the Num Lock key is active or inactive at system start-up time.
Floppy Drive Swap	If you have two diskette drives installed and you enable this item, drive A becomes drive B and drive B becomes drive A.

Floppy Drive Seek	If you enable this item, your system will check the diskette drives at start up time. Disable this item unless you are using an old 360K diskette drive.
Password Check	If you have installed a password on your system, use this item to determine if the password is required to enter the setup utility (Setup) or required at start-up time and to enter the setup utility (A/ways).
Boot to OS/2 Over 64MB	Enable this item if you are booting the OS/2 operating system and you have more than 64MB of memory installed.
Internal Cache	Leave this item enabled since all the processors that can be installed on this board have internal cache memory.
System BIOS Cacheable	If you enable this item, a segment of the system BIOS will be cached to main memory for faster execution.
SDRAM Speed	This item determines the speed of the installed SDRAM main memory. We recommend that you leave this item at the default value.
Refresh Queue Depth	This item determines the operation of the memory refresh timing. We recommend that you leave this item at the default value.
SDRAM CAS Latency	This item determines the operation of the main memory CAS (column address strobe). We recommend that you leave this item at the default value.
Graphic Win Size	This item determines the operation of the onboard graphics adapter. We recommend that you leave this item at the default value.

Power Management Setup Page

This page sets some of the parameters for the system power management operation.

AMIBIOS SETUP - POWER MANAGEMENT SETUP	
(C)1998 American Megatrends, Inc. All Rights Reserved	
Power Management/APM	Disabled
Standby Time Out (Minute)	Disabled
Suspend Time Out (Minute)	Disabled
Keyboard Power On	Disabled
LAN Card Power On	Disabled
Ring On Power On	Disabled
RTC Alarm Power On	Disabled
RTC Alarm Date	15
RTC Alarm Hour	12
RTC Alarm Minute	30
RTC Alarm Second	30
ESC : Quit F1↔ : Select Item F1 : Help F1/PD/+/ : Modify F5 : Old Values (Shift) F2 : Color F6 : Load BIOS Defaults F7 : Load Setup Defaults	

Power Management/APM Use this item to enable or disable the power management routines. If you enable the power management, you can use the items below to set the power management operation.

Standby Time Out (Minute) This sets the timeout for standby mode in minutes. If the time selected passes without any system activity, the computer will enter the power-saving standby mode.

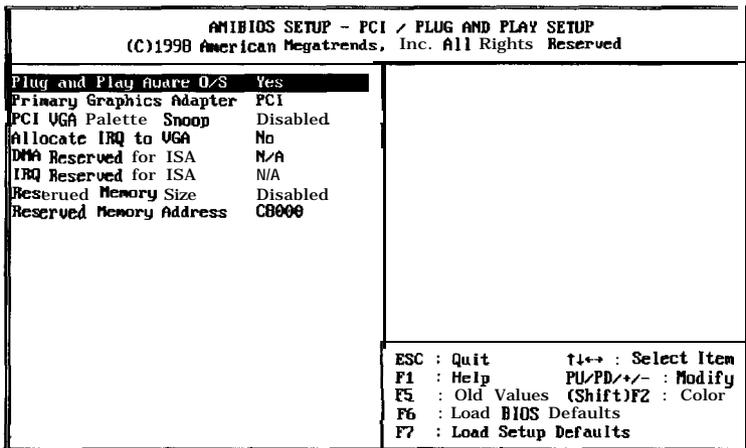
Suspend Time Out (Minute) This sets the timeout for suspend mode in minutes. If the time selected passes without any system activity, the computer will enter the power-saving suspend mode.

Keyboard Power On Your system can enter a software power down. If you enable this item, you can resume the system by pressing hot keys on the keyboard. You must be using an ATX power supply and enable jumper **JP1** in order to use this feature.

Lan Card Power On	Your system can enter a software power down. If you enable this item, the system can automatically resume if there is traffic on the network adapter. You must have an ATX power supply in order to use this feature.
Ring On Power On	Your system can enter a software power down. If you enable this item, the system can automatically resume if there is an incoming call on the built-in Fax/Modem. You must have an ATX power supply in order to use this feature.
RTC Alarm Power On	Your system can enter a software power down. If you enable this item, the system can automatically resume at a fixed time on the system's RTC (realtime clock). Use the items below to set the date and time of the wake-up alarm. You must have an ATX power supply in order to use this feature.

PCI I Plug and Play Setup Page

This page sets some of the parameters for devices installed on the system PCI bus, and devices that use the system plug and play capability.



Plug and Play Aware OIS	Enable this item if you are using an O/S that supports Plug and Play such as Windows 95 or 98.
-------------------------	--

Primary Graphics Adapter	Use this item to define if your primary graphics adapter is installed in a PCI slot or on an AGP bus.
PCI VGA Palette Snop	When this item is enabled, multiple VGA devices operating on different buses can handle data from the CPU on each set of palette registers on every video device.
Allocate IRQ to PCI VGA	If this item is enabled, an IRQ will be assigned to the PCI VGA graphics system. We recommend that you set this value to No.
DMA Resewed for ISA	If you set it to a DMA, the channel will be reserved for an installed non-PnP ISA or EISA expansion card.
IRQ Reserved for ISA	If you set it to an IRQ, the IRQ line will be reserved for an installed non-PnP ISA or EISA expansion card.
Reserved Memory Size	This item lets you reserve a block of memory for any device that requires it.
Resewed Memory Address	This item lets you set the address for any block of memory that has been reserved.

Load Optimal Settings

If you select this item and press **Enter** a dialog box appears. If you press Y, and then **Enter**, the setup utility is loaded with a set of optimal default values. The optimal default values are not very demanding and they should allow your system to function with most kinds of hardware and memory chips.

Load Best Performance Settings

If you select this item and press **Enter** a dialog box appears. If you press Y, and then **Enter**, the setup utility is loaded with a set of best-performance default values. The optimal default values are quite demanding and your system might not function properly if you are using slower memory chips or other kinds of low-performance components.

Features Setup Page

This page sets some of the parameters for peripheral devices installed on the system.

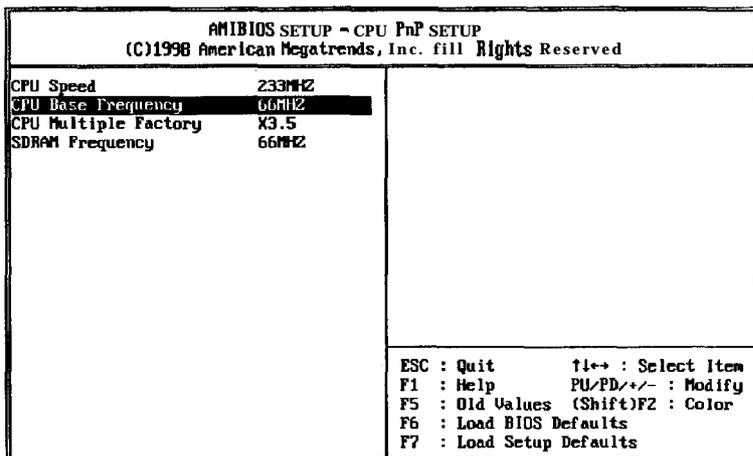
AMIBIOS SETUP FEATURES SETUP	
(C)1998 American Megatrends, Inc. All Rights Reserved	
OnBoard FDC	Enabled
OnBoard Serial Port1	3F8h/COM1
OnBoard IR Port	Disabled
IR Duplex	Half
OnBoard Parallel Port	378h
Parallel Port Mode	Normal
Parallel Port IRQ	7
Parallel Port DMA	N/A
Onboard PCI IDE	Both
Ultra DMA Support	Disabled
USB Function	Disabled
USB Function for DOS	Disabled
ESC : Quit F4 : Select Item F1 : Help F5/PF5 : Modify F5 : Old Values (Shift)F2 : Color F6 : Load BIOS Defaults F7 : Load Setup Defaults	

Onboard FDC	Use this item to enable or disable the onboard floppy disk drive interface.
Onboard Serial Port1	Use this item to enable or disable the onboard serial port COM1 , and to assign a port address
Onboard IR Port	Use this item to define the protocol for an infrared port if you have installed an optional IR port.
IR Duplex	Use this item to define if the optional infrared port is full-duplex or half-duplex.
Onboard Parallel Port	Use this item to enable or disable the onboard parallel port LPT1, and to assign a port address
Parallel Port Mode	Use this item to determine the parallel port mode. You can select Normal, ECP (Extended Capabilities Port), EPP (Enhanced Parallel Port), or ECP + EPP.
Parallel Port IRQ	Use this item to assign an IRQ to the parallel port.
Parallel Port DMA	Use this item to assign a DMA channel to the parallel port.

Onboard IDE	Use this item to enable or disable either of the two onboard IDE channels, Primary or Secondary.
Ultra DMA Support	Use this item to determine if you require Ultra DMA support for IDE devices on the primary or secondary IDE channels.
USB Function	Enable this item if you plan to use the USB ports that are integrated on this mainboard.
USB Function for DOS	Enable this item if you plan to use the USB ports that are integrated on this mainboard in the DOS environment.

CPU PnP Setup Page

This page lets you manually configure the mainboard for the CPU. The system will automatically detect the kind of CPU that you have installed and make the appropriate adjustments to the items on this page.



CPU Speed	Use this item to set the internal clock speed of your CPU.
CPU Base Frequency	Use this item to set the system bus frequency that is required by the CPU.

CPU Multiple Use this item to set a multiplier for the system
 Factory bus frequency. The multiplier x the system bus
 frequency must equal the internal clock speed
 of your CPU, e.g. 100 MHz (system bus) x 3.5
 (multiplier) = 350 MHz (internal clock speed of
 installed CPU).

SDRAM Frequency Use this item to set the bus frequency for the
 memory bus.

Hardware Monitor Page

This page sets some of the parameters for the hardware monitoring function of this mainboard.

AMIBIOS SETUP - HARDWARE MONITOR (C)1998 American Megatrends, Inc. All Rights Reserved	
System Hardware Monitor	
CPU Temperature	41°C/125°F
CPU FAN Speed	
Vcc 5.0V	5.000 V
Vcc 3.3V	3.300 V
Vcc 2.5V	2.500 V
Vcore	2.000 V
ESC : Quit F11-> : Select Item F1 : Help PU/PD/</> : Modify F5 : Old Values (Shift)F2 : Color F6 : Load BIOS Defaults F7 : Load Setup Defaults	

CPU Temperature Use this item to set the threshold temperature
 for the CPU. The system will alert you if this
 temperature is exceeded.

CPU FAN Speed & Use these items to set the parameters for the
 Vcore voltages that control the fans and the CPU
 core. If the values deviate by an amount greater
 than the values installed here, the hardware
 monitoring will alert you with a warning .

Change Password

If you highlight this item and press **Enter**, a dialog box appears which lets you enter a Supervisor password. You can enter no more than six letters or numbers. Press **Enter** after you have typed in the password. A second dialog box asks you to retype the password for confirmation. Press **Enter** after you have retyped it correctly. The password is required at boot time, or when the user enters the setup utility.

Change or Remove the Password

Highlight this item and type in the current password. At the next dialog box, type in the new password, or just press Enter to disable password protection.

Exit

Highlight this item and press **Enter** to save the changes that you have made in the setup utility and exit the setup program. When the Save and Exit dialog box appears, press Y to save and exit, or press N to exit without saving.

Chapter 4

Software & Applications

Introduction

The support software CD-ROM that is included in the mainboard package contains all the drivers and utility programs needed to properly run our products. Below you can find a brief description of each software program, and the right location for your mainboard version. More information on each individual program might be available in a README file, located in the same directory as the software.

In order to run the software, put the support software CD-ROM in the CD-ROM drive, and execute the EXE file name given in the description below.

Note: The correct path name for each software driver is provided, where D: identifies the CD-ROM drive letter modify if necessary.

Bus Master IDE Driver

The IDE Bus Master Drivers allows the system to properly manage the IDE channels on the mainboard. You only need to install an IDE driver if you are running Windows 95.

◆ Windows 95 - D:\IDE\M741LMRT\WIN9x\SETUP.EXE

USB Driver

The USB Driver allows the system to recognize the USB ports on the mainboard. You need to install this driver if you are running Windows 95.

This driver is available for:

◆ Windows 95 - D:\USB\EUSBSUPP\USBSUPP.EXE

- ◆ Windows 95 (Chinese) -
D:\USB\CUSBSUPP\CUSBSUPP.EXE

Sound Driver

The Sound driver allows the system to generate optimal sound effects.

This driver is available for:

- ◆ DOS & Windows 3.x - D:\SOUND\Driver\8738AM\DOS-w31\
w31\
◆ Windows 95/98 - D:\SOUND\Driver\8738AM\W95-98\
◆ Windows NT - D:\SOUND\ Driver\8738AM\nt40\

There is also an Audio Rack application program available for:

- ◆ Windows 95/98 - D:\SOUND\Gamut\Audio Player

Graphics Drivers and Software

Find the Graphics drivers and software here:

- ◆ D:\VGA\M741LMRT\Win9x\SETUP.EXE

Fax/Modem Drivers and Software

Find the fax/modem drivers and software here:

- ◆ D:\Modem\8738\Win9x
◆ D:\Modem\SuperVoice\

Network Adapter Driver

Find the network adapter driver here:

- ◆ D:\LAN\Davicom9 102

BIOS Update Utility

The BIOS Update utility allows you to update the BIOS setup file on your mainboard to a newer version. You can download the latest version of the BIOS setup available for your mainboard from the website.

- ◆ D:\UTILITY\AMIFL8 15 .EXE

PC-Cillin Software

The PC-Cillin software program provides anti-virus protection for your system.

This program is available for:

- ◆ DOS - D:\PC-CILLIN\DOS\PCSCAN.EXE
- ◆ Windows 95 D:\PC-CILLIN\WIN95\DISK1\SETUP.EXE
- ◆ Windows 98 - D:\PC-CILLIN\WIN98\SETUP.EXE

ADCM Software

The AMI Desk-Client Management software provides network management services.

This software is available for:

Windows 95/98 - D:\AMI ADCM\WIN95&98\SETUP.EXE

Media Ring Talk Software

- ◆ D:\Modem\MediaRingTalk\

Using the PCI Sound Application

1. Before you install the PCI Sound drivers, make sure your Operating System has been installed, otherwise the PCI Sound might be detected as “Other device” by the device manager of your OS.
2. After the drivers are properly installed, choose the MULTIMEDIA icon in the CONTROL PANEL when you need to use the Software Wave-Table drivers as a MIDI output device. Select the MIDI page and click on “C-media SoftMidi Synthesis (Win98) / Driver (Win95)“, then click “OK” to confirm.
3. A Windows application named Audio Rack is provided with the PCI Sound drivers, which gives you control over all the audio functions through a user interface that is as simple to use as a home stereo system. We recommend that you use the System Mixer in the Audio Rack software to control your computer’s audio volume, recording device and the recording gain.
4. If the devices that you are using require the MIDI port as the control interface, you need to select the MULTIMEDIA icon in the CONTROL PANEL. Select the MIDI page and click on “CM8738 MPU401” (Win98) or “CM8738/C3DX PCI Audio External MIDI Port” (Win95), and then click “OK” to confirm.

5. For more information, refer to the PCI Sound manual in the CD which ships with this mainboard.

The Four Speakers System

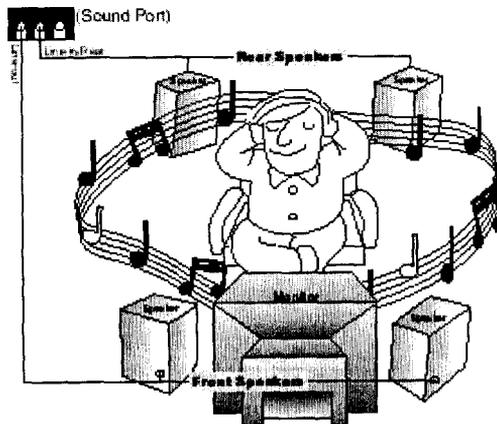
The onboard Sound Pro audio system supports 2 wave channels (front/rear) known as the 4 speaker system. If you are running applications which use the DirectSound® 3D or A3D® audio interface, your system can simulate realistic 3D sound through a 4 speaker setup. Follow the steps below to install a 4-speaker setup.

Speaker Installation

Connect the front two speakers to the Line-out jack on the sound ports extension bracket. Connect the rear two speakers to the Line-in/Rear jack on the sound ports extension bracket. The original Line-in can be moved to Aux.

Speaker Position

Set up your speakers similar to the following figure to get the best audio result.



A picture on the 4 speakers application

Mixer Setup

There is a 4-speakers option in the Volume Control of the Mixer when you are setting up the PCI Audio Application. Click on the 4 SPK icon to enable this option. This means that the output to the rear speakers is sent through the Line-in/Rear jack. In order to

avoid hardware conflicts, DO NOT enable this option when the Line-in/Rear jack is connected with a line-in device. While the 4 speakers mode is enabled, turn on/off the output of the front speakers and adjust the volume of the speakers so that the front/rear speakers have the same volume.

Demo

Execute the “Helicopter” demo in the C3D HRTF Positional Audio Demos of the PCI Audio Application. When you hear the helicopter flying behind you, it means that the rear speakers are working properly.



COREL
WordPerfect^{Suite} 8

www.corel.com/upgradeinfo

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929039

**You must sure in 800x600 display mode before
you install the Core1 WordPerfect Suite 8.**



WELCOME TO COREL WORDPERFECT SUITE 8

Congratulations! Your new computer includes a copy of Corel® WordPerfect® Suite 8, the award-winning office suite. Corel WordPerfect Suite 8 is designed to unleash your full productivity potential. World-renowned applications offer a new level of responsiveness and performance, while advanced Internet tools make it easy to publish to the Web. A streamlined, intuitive interface, state-of-the-art scheduling and calendaring, and an advanced help system power you through your workday — making even complicated tasks easy. Take advantage of leading-edge collaboration and business tools with Corel WordPerfect Suite 8.

What's the purpose of this introductory guide?

This guide to Corel WordPerfect Suite 8 introduces the major applications included in the suite, provides installation and registration instructions, describes documentation included with Corel WordPerfect Suite 8, and outlines Corel support and service options.

Corel WordPerfect Suite 8 applications

This section describes the major applications included in Corel WordPerfect Suite 8.

Corel WordPerfect 8

Corel WordPerfect 8 is a word-processing application that lets you produce professional-looking documents, such as newsletters, articles, reports, books, proposals, legal pleadings, and brochures. Corel WordPerfect 8 makes it easy to add graphics, charts, and tables to any document. Corel WordPerfect 8 continues to support reveal codes, which lets you control every element of a document. Corel WordPerfect 8 also has enhanced Internet features, which let you create a document and publish it to paper, electronic media, and the World Wide Web.

Corel Quattro Pro 8

Corel Quattro Pro 8 is a spreadsheet application that lets you manage, analyze, report, and share data. Corel Quattro Pro 8 helps you make informed business decisions by providing the tools you need to produce tables, financial forms, lists, databases, charts, and reports. Corel Quattro Pro 8 lets you

perform simple tasks, such as creating personal budgets, to more complex tasks, such as preparing year-end financial statements, performing complex data analyses, and creating reports from external databases. Like Corel WordPerfect 8, Corel Quattro Pro 8 lets you create a single file, then publish it to paper, electronic media, and the World Wide Web.

Corel Presentations 8

Corel Presentations 8 lets you create high-quality slide shows and drawings. Corel Presentations lets you produce project proposals, interactive reports and demonstrations, multimedia presentations, flyers, signs, and banners. You can also create slide show presentations for large monitors, portable presentations, the Internet or an intranet, overhead transparencies, 35-mm slides, and printed color or black-and-white copies of a slide show. Corel Presentations 8 is also a drawing application that lets you create drawings, edit and create bitmap images, and convert vector images to bitmaps, without learning a separate application.

CorelCENTRAL 8

CorelCENTRAL 8 is a personal information manager that helps you make the most of your time. You can plan your daily schedule, write reminders, organize reference information, and manage contact information.

Other Corel WordPerfect Suite 8 applications and utilities

In addition to the major applications already discussed in this chapter, Corel WordPerfect Suite 8 includes several other applications and utilities. This section describes some of these applications and utilities.

Desktop Application Director™

The Desktop Application Director (DAD™) lets you access the major applications in Corel WordPerfect Suite 8 from the Windows taskbar, which eliminates the need to create shortcuts.



Corel® Versions@

Corel Versions provides a solution to the problem of controlling and tracking multiple copies of a file. Instead of tracking updates to a file by saving new versions of the file using different file names, you can use Corel Versions to

save changes to each successive version of a file. Each version is archived to its own folder, or to the folder of your choice, on any read/write drive.

Macros and PerfectScript™

Macros are time-saving programming scripts that automate routine tasks. Macros let you reproduce the behavior of keyboard commands, some mouse actions, and menu commands. For example, you can create a macro that retrieves a file, gives it a new name, and saves it in another format. Then, at any time, you can play the macro to repeat the action.

PerfectScript is the macro language for Corel WordPerfect, Corel Quattro Pro, and Corel Presentations. It is a command-based language that lets you record the results of keystrokes or mouse selections, instead of recording the keystrokes themselves. For example, instead of recording each keystroke involved in changing the top margin of a document to 2 inches, you can use PerfectScript to record the command `MarginTop (MarginWidth : 2 .0")`.

PerfectScript includes programming commands that direct the function of a macro. These commands let you create macros that can prompt user input, make decisions, and access system variables. By using programming commands with product commands, you can automate long or complex tasks.

Corel WordPerfect Suite 8 file filters

Corel WordPerfect Suite 8 applications include file filters that let you open and edit documents created using Microsoft Office and Lotus SmartSuite applications. For example, you can open a Microsoft Word document in WordPerfect, or you can use Quattro Pro to open a Lotus 1-2-3 spreadsheet. You can also save Corel WordPerfect Suite 8 documents in Microsoft Office and Lotus SmartSuite formats. For example, you can save a Corel Presentations slide show as a Microsoft PowerPoint presentation, or a Corel WordPerfect document as a Microsoft Word document.



- To maintain backward file compatibility, the file format for Corel WordPerfect 8 remains the same as for WordPerfect 6.1 and 7.
-

Corel WordPerfect Suite 8 SDK and Corel® Solution Partners

The Corel WordPerfect Suite 8 Software Developer's Kit (SDK) is a set of tools that lets software developers customize Corel WordPerfect Suite 8 applications for commercial or business use. The SDK is located on the Corel WordPerfect Suite 8 installation CD in the D:\SDK folder (where "D" is the letter that corresponds to the CD-ROM drive).

The Corel Solution Partners program supports developers of complimentary products and add-ons for selected Corel products, including Corel WordPerfect Suite 8. The program is designed to help accelerate the development of third-party products and promote these products. For more information about Corel Solution Partners, see our World Wide Web site at www.corel.com/partners_developers/csp.

Upgrade to WordPerfect Office 2000

WordPerfect Office 2000, the latest version of our award-winning suite, offers more power, easier file sharing, and enhanced performance. Get going with an office suite that really works your way. WordPerfect Office 2000 is packed with powerful software for word processing, spreadsheets, presentations, and Web publishing. Take advantage of:

- Easy document formatting: Use the familiar Reveal Codes feature in WordPerfect 9 and **Corel® RealTime Preview**-available throughout the suite-to format long or complex documents quickly.
- Applications designed to work together: Drag and drop data between applications to combine text, spreadsheets, and graphics in one document. Plus, applications share the same look and feel to help you maximize productivity
- No-nonsense file sharing: Use the software you prefer and exchange files effectively with people using other applications and suites, including Microsoft® Office 97.

Our new suite, WordPerfect® Office 2000, includes exciting new features to enhance your productivity. Plus, enhanced Internet tools let you make the most of the Web! Depending on the version you choose, you can take advantage of speech recognition technology, a powerful relational database, and much more.

How to upgrade

You are entitled to order WordPerfect Office 2000 at the upgrade price. You can upgrade by:

- Contacting Corel Customer Service by telephone. For more information about contacting Corel Customer Service, see page 17 of this guide.
- Buying online from Corel's home on the World Wide Web at www.corel.com/upgradeinfo.

To qualify for this special offer, please quote **W8CXO-K933352530** when ordering.



You must install Corel WordPerfect Suite 8 before you run it for the first time. The Corel WordPerfect Suite 8 Setup application makes it easy to install. You can also use the Setup application to

- add components to your currently installed Corel WordPerfect Suite 8
- refresh files and configurations of your currently installed Corel WordPerfect Suite 8

Before installing, you should do the following:

- Close any open applications.
- Close any virus-detection application.

In some cases, you may already have Corel WordPerfect Suite 8 installed on your system. You can determine if this is the case by clicking Start on the Windows taskbar.

Setting up Corel WordPerfect Suite 8

The Corel WordPerfect Suite 8 Setup application installs all the main applications and components.



- To change selections in the Corel WordPerfect Suite 8 Setup application, click the Back button.
 - Click the Help button for more information when you make selections in the Corel WordPerfect Suite 8 Setup application.
-

To Install Corel WordPerfect Suite 8 applications

1 Insert the Corel WordPerfect Suite 8 CD into the CD-ROM drive.

If the Corel WordPerfect Suite 8 Setup screen does not display, click the Start button on the Windows taskbar, and click Run. Type D:\Autorun (where D is the letter corresponding to the CD-ROM drive) in the Open box.

2 Click Corel WordPerfect Suite 8 Setup.

- 3 If you want to read the Corel WordPerfect Suite 8 Release Notes, click the Release Notes button. The Release Notes may contain installation tips that were not available at press time.
- 4 Click the Next button.
- 5 Read the Corel WordPerfect Suite 8 license agreement, and click the Yes button. If you don't accept the license agreement, the Setup application terminates.
- 6 Complete the Registration Information dialog box, and click Next. The Serial Number can be found on the Registration Card at the front of this book.
- 7 Enable one of the following options:
 - Typical — installs the most commonly used applications, utilities, and files, and is the recommended installation type for most users. Use this option if you're not sure which Corel WordPerfect Suite 8 components you want to install. You can add and remove components afterwards.
 - Compact — conserves hard drive space by installing the minimum number of applications, utilities, and files needed to operate Corel WordPerfect Suite 8. Enable this option if you have little free disk space and require only the minimum components. This installation is often used for laptop computers.
 - Custom — lets you choose which Corel WordPerfect Suite 8 components to install. This option gives you the most control over the installation process. Choose this option if you need to install specialized components that are not included in the Typical or Compact installation setups.
 - Run From Network — lets you run Corel WordPerfect Suite 8 from a network server.
- 8 Click the Next button and follow the installation instructions in the Setup Wizard.

Registering Corel WordPerfect Suite 8

As a registered Corel WordPerfect Suite 8 user, you have access* to:

- Special offers
- Software release updates
- Technical services and solutions (available in several languages)
- Chat groups
- Message boards
- Articles
- Tips and tricks

* Internet connection required to access some of these services. Long distance charges may apply.

You can register your copy of Corel WordPerfect Suite 8 by completing the registration card found on the first page of this guide, and mailing or faxing it to Corel. You can register at Corel's home page on the World Wide Web at **www.corel.com/upgradeinfo**. If you register online, you are eligible to download an image (up to a \$99 US value) from Corel® Studio.

Starting and closing Corel WordPerfect Suite 8 applications

After you have installed Corel WordPerfect Suite 8, you're ready to start using the applications and utilities.

To start a Corel WordPerfect Suite 8 application

- From the Windows taskbar, click Start, Corel WordPerfect Suite 8, and click the application you want.

Corel WordPerfect Suite 8 language versions

The English version of Corel WordPerfect Suite 8 is either installed on your system or available for installation. Other language versions of Corel WordPerfect Suite 8 can be purchased for a special price. The following language versions are available: German, French, Dutch, Spanish, Italian, Brazilian Portuguese, Norwegian, Danish, Finnish and Swedish.

You can order a language version by:

- Contacting Corel Customer Service by telephone. For more information about contacting Corel Customer Service, see page 17 of this guide.
- Buying online from Corel's home on the World Wide Web at **www.corel.com/upgradeinfo**.

To qualify for this special offer, please quote **W8CXO-K933352530** when ordering.



LEARNING HOW TO USE COREL WORDPERFECT SUITE 8

3

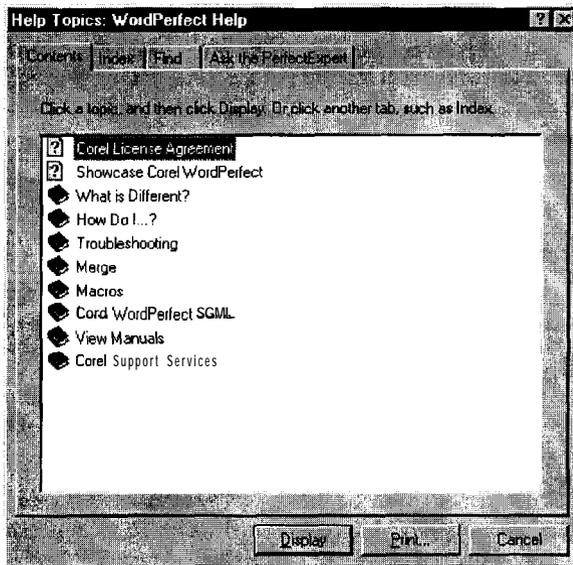
Corel WordPerfect Suite 8 offers electronic documentation to help you learn and use the applications efficiently, and the PerfectExpert™, a user assistance tool to help you work more quickly while you become more familiar with Corel WordPerfect Suite 8 applications. Corel WordPerfect Suite 8 electronic documentation is available in two formats that offer different content and tools: online Help files and Reference Center manuals.

Using online Help

The online Help is your most comprehensive source of information for Corel WordPerfect Suite 8 applications.

The Help Topics dialog box provides four ways to find information. You can choose a topic from the Contents page, use the Index page to search for a topic, use the Find page to search for specific words and phrases in Help topics, or use the Ask the PerfectExpert. You can print topics from the online Help.

This picture shows a portion of the Help Topics dialog box for Corel WordPerfect



To access online Help topics

- 1 From a Corel WordPerfect Suite 8 application, click Help, Help Topics.
- 2 Click one of the following tabs:
 - Contents -to browse through topics by category
 - Index — to see a list of index entries
 - Find — to search for a particular word or phrase in the online Help
 - Ask the PerfectExpert — to search for information using your own words

To print an entire section in the online Help

- 1 On the Contents page, choose the section you want to print.
- 2 Click the Print button.

To print a selected topic in the online Help

- Right-click the help topic window, and click Print Topic.

Context-sensitive Help

Corel WordPerfect Suite 8 includes several forms of context-sensitive Help -help that provides you with information about the application while you work. You can access context-sensitive Help from the menus, dialog boxes, and toolbars. The most common ways to access context-sensitive Help are as follows:

To get help on . . .	Do this . . .
Menu commands	Position the cursor on a command. A brief description, called a QuickTip, appears.
Toolbar buttons	Position the cursor on a button. A brief description, called a QuickTip, appears.
Dialog boxes	Click the Help button in the dialog box or press F1 .
Dialog controls	Click the What's This Help button  in a dialog box, and click the dialog control for which you want help.

Reference Center manuals

The Reference Center contains all the text of the manuals available for Corel WordPerfect Suite 8 in Envoy (.EVY) format. You must have Envoy installed

on your system to view the manuals. If you prefer reading from a paper format, you can print manuals from Envoy.

The Corel WordPerfect Suite 8 Reference Center typically runs from the CD-ROM, unless your installation type is Custom or Run from Network.

This picture shows the Corel WordPerfect Suite 8 Reference Center displaying five manuals. Other manuals are available.



To view the Reference Center manuals for Corel WordPerfect Suite 8

Do one of the following:

- If you did a Custom installation of Corel WordPerfect Suite 8, and installed the Corel Reference Center, click Start, Corel WordPerfect Suite 8, Setup & Notes, Reference Center. Click the picture that represents the manual you want to see.
- Insert the Corel WordPerfect Suite 8 CD into the CD-ROM drive. Click Release Notes, and click the picture that represents the manual you want to see.



- You can find the Corel WordPerfect Suite 8 Reference Center (REFCNTR.EXE) in the \Corel\Suite8\Shared\Refcntr folder on the Corel WordPerfect Suite 8 CD-ROM.

PerfectExpert

Corel WordPerfect Suite 8 provides an Expert to help you with many common tasks. The PerfectExpert includes the best features of QuickTask™, templates, and Coaches™.

The PerfectExpert can guide you through a detailed project, such as creating a resume, or it can guide you through a smaller task, such as inserting a clipart image. The PerfectExpert even provides you with galleries of professionally designed documents to choose from, whose layout and content you can change to match your needs.

To enable the PerfectExpert

- From a Corel WordPerfect Suite 8 application, click Help, PerfectExpert.

Other sources for learning Corel WordPerfect Suite 8

Other sources for learning about using Corel WordPerfect Suite 8 applications include the following:

World Wide Web

For in-depth information on getting the most out of Corel WordPerfect Suite 8, visit the community site for Corel WordPerfect Suite 8 users at **Community.Corel.com/wpo2000** on the World Wide Web. Designed for both new and expert users, **Community.Corel.com** is a comprehensive, free resource for monthly features, tips & tricks, tutorials and more.

Corel's site on the World Wide Web provides other resources to help answer your questions about Corel WordPerfect Suite 8. For information about these resources, see "Technical support on the World Wide Web," on page 13.

Corel eStore™

If you want to learn about getting more out of Corel WordPerfect Suite 8, visit Corel eStore on the World Wide Web at **www.corel.com/estore**. This online shopping forum provides a listing of books, tutorials, and training videos.

Corel Training Partners

Corel Training Partners provide courses to teach you how to get the most out of Corel WordPerfect Suite 8. Corel Approved Curriculum Vendors are independent organizations that carry training curricula for Corel WordPerfect Suite 8 products. Corel Training Partners are required to use courseware from Corel Approved Curriculum Vendors, which ensures that course participants receive quality training and learning materials. If you are looking for the closest Corel Training Partner in your city, if you want to become Corel Certified for Corel WordPerfect Suite 8, or if you want your organization to be approved as a Corel Training Partner, visit our Web site at **www.corel.com/learning/training/index.htm**.

Third-party manuals and magazines

Third-party manuals for Corel WordPerfect Suite 8 applications are available at your local computer store or bookstore. You can also find examples of specific tasks for Corel WordPerfect Suite 8 applications in computer magazines.



Corel WordPerfect Suite 8 is supported by the Corel Client Services team which is committed to provide quality customer service and support that is easy to access and convenient to use, while fostering one-to-one customer relationships.

If you have a question about the features and functions of Corel WordPerfect Suite 8 applications, consult the online Help for the application you are using, or review the manuals in the Corel WordPerfect Suite 8 Reference Center. You can also find updates and technical information in the Release Notes that were not available at press time.

To view the Release Notes

- On the Windows taskbar, click Start, Corel WordPerfect Suite 8, Setup & Notes, Release Notes.

Technical support on the World Wide Web

The World Wide Web address for Corel on the Internet is **www.corel.com**. Users in Germany can use **www.corel.de** and users in Ireland can use **www.corel.ie**. From Corel's home page, you can use a variety of support options.

Support Newsgroups

The Corel Support Newsgroups, accessible from the Corel Web site, are intended to let users exchange information, tips, and techniques with other users of Corel WordPerfect Suite 8 applications. The newsgroup is located at **www.corel.com/support/newsgroup.htm**.

Corel® Knowledge Base

From Corel's searchable Knowledge Base, you can read, print, or download documents that contain answers to many of your Corel WordPerfect Suite 8 technical questions or problems. The Knowledge Base is located at **kb.corel.com**.

AnswerPerfect™

AnswerPerfect is a convenient technical support service provided by Corel for customers in the United States and Canada that use English language versions of our products.

Corel is committed to responding to AnswerPerfect support incidents within one business day. However, there may be delays associated with the World Wide Web that will prevent an immediate response. Please contact Corel Technical Services by telephone for all critical support issues.

You can access AnswerPerfect support at **www.corel.com/support/answerperfect.htm**.

File Transfer Protocol (FTP)

You can download printer drivers, patches, plugs, updates, or other files located on the anonymous FTP site at **ftp.corel.com**. For information about this site, see **www.corel.com/support/ftpsite/ftpindex.htm**.

Other Corel WordPerfect Suite 8 support options

Corel offers the following technical support options, most of which are available 24 hours a day, 365 days a year. These services are useful if you prefer not to pay for support or if you encounter problems during off-hours.

IVAN (interactive Voice Answering Network)

The Interactive Voice Answering Network provides answers to commonly asked questions about Corel products and is available 24 hours a day, 365 days a year. It is regularly updated with the latest information, tips, and tricks. You can also request that IVAN solutions be faxed to you. There is no charge for this service beyond the cost of the telephone call. To use this service, call:

- North America (613) 728-1937
- Rest of world +353-1-708-2525, select option 1 (Ireland-based phone number)

Automated FAX On Demand

Technical Support maintains an Automated FAX On Demand system of numbered documents that contain up-to-date information about common issues, tips, and tricks. This service is available 24 hours a day, 365 days a year. To use this service, call:

- North America (613) 724-3456
- Rest of world +353-1-708-2525, select option 2 (Ireland-based phone number)

CompuServe

If you have a CompuServe membership, you can interact with other users and Core! volunteers to obtain product information and support. You can also quickly search Core!'s technical information database for answers to many of your technical questions or problems, and download printer drivers and other files. CompuServe is available 24 hours a day, 365 days a year, including holidays. Core! volunteers respond from 8:30 a.m. to 5:00 p.m. Eastern Time, from Monday to Friday, excluding holidays.

To access Core! on CompuServe, enter GO CORE! at the CompuServe prompt.

Bulletin Board System (BBS)

If you have a modem and a communications software package, you can access Core!'s BBS. You can use the BBS to download files, including printer drivers, troubleshooting information, and utilities. You can also transfer problem files to Customer Support through the BBS. This option is available only outside North America. To access the BBS, call:

+353-1-708-2700 (Ireland-based phone number)

+31-10-4763232 (Netherlands-based phone number)

Telephone technical support options

Core! WordPerfect Suite 8 users can use fee-based telephone technical support options. Complete information about these options, including phone numbers, is available in the Support and Services online Help file. This online Help file explains the two levels of support that are available to you and your organization.

Priority Service

Priority Service is a fee-based service for users that require the help of second-level technicians. Priority Service may be purchased by the minute, by the incident, or on a term basis. Options range from core business hour access for individual users to around-the-clock access for multiuser environments.

Premium Service

Premium Service is Core!'s highest level of support. This fee-based service is designed for organizations that want to establish a direct relationship with Core! and for organizations that employ dedicated support professionals or have centralized technical management.

To view the **Corel WordPerfect Suite 8 Support and Services online Help**

Do one of the following:

- On the Windows taskbar, click Start, Corel WordPerfect Suite 8, Setup & Notes, Technical Support Help.
- If you have not installed Corel WordPerfect Suite 8, you can access Support and Services information in the SUPPORT8.HLP help file on the Corel WordPerfect Suite 8 installation CD. This help file is located in the D:\Corel\Suite8\Shared\Help folder (where “D” is the letter that corresponds to the CD-ROM drive).

Before calling **Corel Technical Support**

Before you call Corel Technical Support, please have the following information available to assist the Technical Support representative in helping you.

- A brief description of the problem, including the exact text of any error messages received, and the steps required to recreate the problem.
- The type of computer, monitor, pointing device (for example, mouse or tablet), printer, and video card (display adapter) you are using.
- The version number of Microsoft Windows you are using. To find the version number, in Windows Explorer, click Help, and choose About Windows 95, About Windows 98, or About Windows NT
- The version number of the Corel WordPerfect Suite 8 application you are using. To find the version number, click Help, About (the name of your Corel WordPerfect Suite 8 application) in an application.
- List of any applications loaded into RAM. Check the Startup folder in the Programs menu to determine if you are running any other applications.

You must provide your Personal Identification Number (PIN) or serial number each time you call Corel Technical Support. This information is available in the About dialog boxes in Corel WordPerfect Suite 8 applications.

To view and edit your serial number and PIN

- 1 Click Help, About (the name of your Corel WordPerfect Suite 8 application).
- 2 Click Edit Serial Number/PIN.
- 3 Type your serial number.
- 4 Type your Personal Identification Number (PIN).

Professional Services

Corel Professional Services is a team of experienced professionals ready to assist you in implementing a complete technology solution and realizing your IT objectives by helping you:

- select and deploy new technologies without generating unexpected training, support, and administration costs
- extend the life of your legacy hardware and software to maximize the return on your IT investment
- optimize the performance of your existing Corel technologies

Corel Professional Services offers a range of services including:

- planning and design
- development
- deployment
- support

You may choose to engage Corel Professional Services for some or all of these services, depending on the scope of the project and the availability of your company's resources. For more information about Corel Professional Services, visit **www.corel.com/support/professional** on the World Wide Web. If you would like a representative of the North American Corel Professional Services team to contact you, please e-mail **proservices@corel.ca**. Outside of North America, you can contact Corel Professional Services through e-mail at **dub-ps@corel.ie** or by phoning 353-1-7082580 (Dublin).

Customer Service

Corel Customer Service can promptly and accurately provide you with information about Corel product features, specifications, pricing, availability, and services. You can access Customer Service support through the following avenues.

World Wide Web

You can access general customer service and product information through the World Wide Web at **www.corel.com/support**.

Mail, fax, email

You can send specific customer service questions to Corel Customer Service representatives by mail, fax, and email.

Corel Corporation
Corel Customer Service
1600 Carling Ave.
Ottawa, Ontario
Canada
K1Z 8R7

Fax: **613-761-9176**

E-mail: **custserv2@corel.ca**

Telephone

You can also telephone Corel Customer Service centers with your questions.

In North America, you can reach Corel Customer Service by calling our 1-800-772-6735 toll-free line. The hours of operation are 9:00 a.m. to 9:00 p.m., Eastern Time, Monday through Friday, and from 10:00 a.m. to 7:00 p.m. on Saturday.

Corel customers residing outside North America can contact Corel Customer Service representatives in Dublin, Ireland on a toll line at 353-1-706-3916 or call one of the following local authorized Corel Customer Service Partners.

Australia	1-800-658-850
Austria	0800-201-582
Belgium.	0800-72171
Denmark	800 186 96
Finland	0800-1-13502
France.	0800-90-6512
Germany	0130 829443
Hong Kong	810-COREL
Ireland.	1800688400
Italy.	0652362602
Japan	03-5645-8567
Korea	82-2-3444-6781
Luxemburg	0800-2213
Netherlands.	0800-022-5061
Norway	800 11673
Portugal.	0800-S-53-001
Singapore	65-9637-0228
Spain	900943535
Sweden	020-79 10 97
Switzerland	0800 55 7845
UK.	0800 973189

Corel
YZZ/YOW/700401
Casilla 54
1420 Sucursal 20
Buenos Aires
Argentina

Corel
YZZ/YOW/700402
Private Bag 5
Mascot NSW 2020
Australia

Corel
YZZ/YOW/700404
P.O. Box 319
1931 Zaventem 3
Belgique

Corel
YZZ/YOW/700405
Caixa Postal 18080
Aeroporto de Congonhas
Sao Paulo 14699-970
Brazil

Corel
YZZ/YOW/700439
P.O. Box 46
Sofia - 1125
Belgaria

Corel
YZZ/YOW/700406
P.O. Box 244 STN Malton
Mississauga, ON
L4T 3B6
Canada

Corel
YZZ/YOW/700407
Casilla 3787
Santiago
Chile

Corel
YZZ/YOW/700408
Apartado Aéreo
95-444
Calle 64A
No.9449 Alamo
Santa Fe de Bogotá
Colombia

Corel
YZZ/YOW/700409
P.O. Box 11
16500 Praha 5
Czech Republic

Corel
YZZ/YOW/700410
Postboks 1513
2650 Hvidovre
Denmark

Corel
YZZ/YOW/700413
Postfach 920109
51151 Köln
Deutschland

Corel
YZZ/YOW/700431
Apartado 514 F.D.
28080 Madrid
España

Corel
YZZ/YOW/700412
Boite Postale 52
93152 Le Blanc Mesnil Cedex
France

Corel
YZZ/YOW/700436
P.O. Box 66
Hounslow
TW5 9RT
Great Britain

Corel
YZZ/YOW/700414
P.O. Box 72517
16401 Argroupoli
Athens
Greece

Corel
YZZ/YOW/700415
P.O. Box 98882
Tsim Sha Tsui Post Office
Kowloon
Hong Kong

Corel
YZZ/YOW/700416
P.O. Box 54A
Budapest 1683
Hungary

Corel
YZZ/YOW/700417
P.O. Box 401 9/JKI 10001
Utuhik Diberatkan Kepada
Summitas Tower
Jl. Jenderal Sudirman Kav. 61-62
Kay 61602
Indonesia

Corel
YZZ/YOW/700418
Corballis Wood
Dublin Airport
Coghran Co. Dublin
Ireland

Corel
YZZ/YOW/700419
Divisione TNT Mailfast
Casella Postale 29
20092 Cinisello Balsamo
Italia

International Registration Addresses

Please return your registration card to the address nearest you. Write the appropriate address on the back of your registration card.

Internationale Registratieadressen

Bitte schicken Sie Ihre Registerkarte an die nächstgelegene Adresse. Schreiben Sie die betreffende Anschrift auf die Rückseite der Registerkarte.

住所欄

登録カードを返す時の宛先に間違えないでください。この登録カードの裏に適切な住所を記入してください。

Adresses d'enregistrement internationales

Renvoyez votre carte d'enregistrement à l'adresse la plus proche. Inscrivez l'adresse appropriée sur le dos de votre carte d'enregistrement.

Indirizzi internazionali di registrazione

Spedire la scheda di registrazione all'indirizzo più vicino. Specificare l'indirizzo giusto sulla scheda di registrazione.

Direcciones internacionales de registro

Por favor, envíe la tarjeta de registro a la dirección más próxima. Escriba la dirección correcta detrás de la tarjeta de registro.

Internationale registratie-adres

Stuur de registratiekaart naar het dichtstbijzijnde adres. Schrijf het juiste adres op uw registratiekaart.



Affix Postage

Bitte frankieren

切手貼付

Attacher le tarif en vigueur

Affrancare

Sello

A.u.b. voldoende frankeren



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 YYZ/YOW/700420
 6, 6, 3-Chrome Mita, Minato-Ku
 Takanawa Post Office
 P.O. Box 56
 TOKYO
 Japan

Corel
 YYZ/YOW/700421
 Peti Surat No. 8087
 Pejabat Pos Kelana Jaya
 46781 Petaling Jaya
 Malaysia

Corel
 YYZ/YOW/700422
 Georgia No 120 Local B
 Apartado 35
 Col. Napoles, C.P. 03810
 México

Corel
 YYZ/YOW/700423
 Postbus 618
 2130 AP Hoofddorp
 Nederland

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 YYZ/YOW/700424
 P.O. Box 9111
 Newmarket
 Auckland
 New Zealand

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 YYZ/YOW/700425
 Postboks 360
 1324 Lysaker
 Norge

Corel
 YYZ/YOW/700403
 P.O. Box 195
 17 No Stad OBJ 588
 A-2355 Wiener Neudorf
 Österreich

Corel
 YYZ/YOW/700426
 P.O. Box 5
 00-906 Warszawa
 Polska

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 YYZ/YOW/700438
 Rua D-Edificio 69
 Aeroporto de Lisboa
 1700 Lisboa
 Portugal

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 ТНТ Экспресс Уорлдвайд
 3-й Балтийский пер д.3
 125808 Москва
 Россия

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 Airogare Fret
 C.P. 1144
 CH-1215 Geneve 15
 Schweiz

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 YYZ/YOW/700428
 P.O. Box 44
 Macpherson Road
 Singapore 913402
 Singapore

Corel
 YYZ/YOW/700429
 P.O. Box 39
 Isando
 1600
 South Africa

Corel
 YYZ/YOW/700430
 P.O. Box 2
 Yang Chung Post Office

Corel
 YYZ/YOW/700411
 Sopimus 01530-85
 01531 Vantaa
 Suomi

Corel
 YYZ/YOW/700432
 P.O. Box 93
 191 22 Sollentuna
 Sverige

Corel
 YYZ/YOW/700434
 P.O. Box 87-801
 Taipei
 Taiwan

Corel
 YYZ/YOW/700435
 P.O. Box 15321
 Dubai
 U.A.E. Dubai

Corel
 YYZ/YOW/700437
 P.O. Box 9018
 Jencho, NY 11753
 USA

REGIS

Serial I

Serial I

IMPORTANT: Serial Number

Retain this serial number for your records.
 Have it available for all technical support inquiries.



Go further
www.corel.com

• Please fill out the following information, or tape your business card here.

First name	Vorname	名	Prénom	Nome	Nombre	Voornaam	• Last name	Nachname	姓	Nom	Cognome	Apellido	Achternamaam
Company name	Firma	会社名	Société	Ditta	Empresa	Bedrijf							
Mailing address	Adresse	住所	Adresse	Indirizzo	Dirección	Adres							
City	Stadt	市町村	Ville	Città	Ciudad	Woonplaats							
State/Province	Bundesland	都道府県	État/Province/Département	Provincia	Estado/Provincia	Plaats							
Country	Land	国	Pays	Nazione	Pais	Land	• Zip/Postal code	Postleitzahl	郵便番号	Code postal	CAP	Código postal	Postcode
Telephone number with area code	Telefonnummer mit Vorwahl	電話番号 (市外局番を含む)	Numéro de téléphone avec indicatif										
Telefono (prefisso e numero)	Número de teléfono y prefijo	Telefoonnummer (met kengetal)											
Fax number with area code	Faxnummer mit Vorwahl	Fax番号 (市外局番を含む)	Numéro de télécopieur avec indicatif										
Fax (prefisso e numero)	Número de fax y prefijo	Faxnummer (met kengetal)											
Internet address	Internet-Adresse	インターネットアドレス	Adresse Internet	Indirizzo Internet	Dirección Internet	Internetadres							

GAMUT

OEM Bundle Version



WELCOME

Thank you for using FORMOSOFT GAMUT OEM Bundle Version. It provides users with high compression audio CD recording, incredible music playing quality, and versatile music management for various applications. The recording, playing, and music management capabilities of GAMUT lead to a completely new audio experience, and turns your computer into a piece of professional audio equipment. Welcome to the GAMUT club.

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Introduction

GAMUT OEM Bundle Version is a musical integration software designed to combine high-tech digital sound effects with state-of-the-art audio encoding and decoding technology. It will definitely make your PC be the control center of your audio equipment at home by functioning magnificent data management in PC and experiencing you with terrific music playing pleasure.

With high compression rate MP3 technology, GAMUT OEM Bundle Version performs efficiently on music store and management. It was designed to exploit the latest MP3 technology, and dynamically synchronize process MP3 tiles with friendly “Wizard” interface. It uses enhancement technology with digital method to improve the sound effect, enables the music enjoyment as being in the hall or concert.

GAMUT OEM Bundle Version consists of seven tools: Musician, CD-Cashier, Music-Box, 3D_{FS}-ACD, Midier, Voice-Catcher, and Mixer.



(Musician)

To play MP3 tiles and provide digital sound effect functions.

(CD-Cashier)

The easy tool of compression and producing MP3 files.

(Music-Box)

Help user to manager their MP3 file.

(3D_{FS}-ACD)

To play audio CD and provide digital sound effect functions.

(Midier)

Designed to play MIDI music with high quality and offer the convenient play list to control the playing order.

(Voice-Catcher)

The easy tool of recording compression audio files.

(Mixer)

Help to check the functions and control all the audio option about computer environment.

Before Installation

Make sure your system meet the following requirements before you install the Gamut.

1. System Requirements :
 - 200 MHz CPU speed or higher, 8 MB Memory,
 - 10 MB HD Space for Program,
 - 50 MB HD Space for Temporary,
 - 16 Bits Sound Card, CD-ROM Drive, Stereo Speaker

2. Operating System :
 - Windows 95/98, Windows NT with SP4

3. CD-ROM Drive Specification
 - CD-ROM Drive should provide CDDA audio track capture function to enable digital audio track technology in MP3 files. Otherwise user can only use analog compression technology to produce MP3 files and can not result in the best audio quality. However, if user insists on analog compression technology, please check the connection of sound card and the audio connectors behind CD-ROM Drive. The connection way please refers to the instruction manual of sound card or CD-ROM Drive.

4. Sound card Specification
 - 16 bits sound card is essential for GAMUT's digital stereo sound effects technology. <Musician> will automatically detect and transfer to 4-channels sound effects for some sound cards with particular sound chips such as C-Media, ESS, etc. When applying those particular 4-channels sound cards, GAMUT will lead you to experience the 4-channels surround sound field enjoyment. Also please check the drivers needed for your operating system.

5. If there is any other GAMUT previous version, please kindly remove the old ones and then install this version.

Installation

Part 1 Uninstall previous version

Please make sure it's the first time to install GAMUT, if not, please remove the previous version and then install this new version.

step 1.

Click Start/Select Settings/Select Control Panel, double-click Add/Remove programs.

Step 2.

Select Formosoft GAMUT and click "OK" button to automatically uninstall GAMUT

Step 3.

After uninstalling, click "OK" button.

Part 2 First time installation

Step 1.

Place the driver CD into CD-ROM drive, executing the setup.exe program in \Sound\Gamut\AudioPlayer\english.

Step 2.

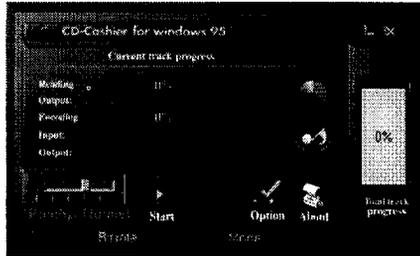
There is a welcome window shows " GAMUT OEM Version" and you can finish the installation by following the instructions step by step.

Step 3.

After installation, there will be GAMUT Link both on Desktop and in Start menu and also a GAMUT directory in the list of Program files. You could select each habitual method to start GAMUT.

Produce MP3 file-Use CD-Cashier

Start CD-Cashier from “Menu Bar” or “Start Menu/Program Files/GAMUT/ CD-Cashier”.



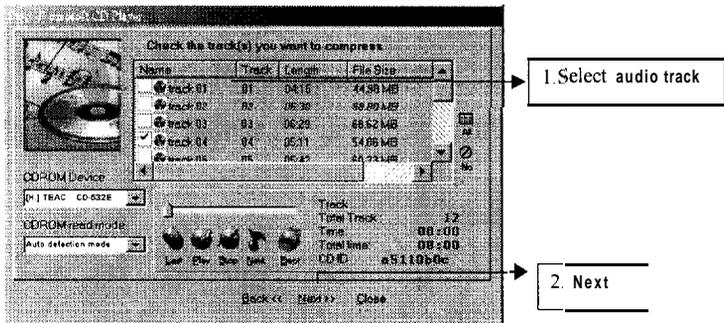
Step 1. Place Audio CD into CD-ROM drive and click Start button on panel. Step by step follow the “Wizard” instruction.

Step 2. Select 「 Digital recording from Audio CD 」 to capture the audio track with high quality digital technology to keep the beauty of original audio CD.

If the CD-ROM drive doesn't provide CDDA audio track capture function, select 「 Analog recording from Audio CD 」 to record MP3 files with analog technology. However, analog technology may not result in good quality as digital technology does.

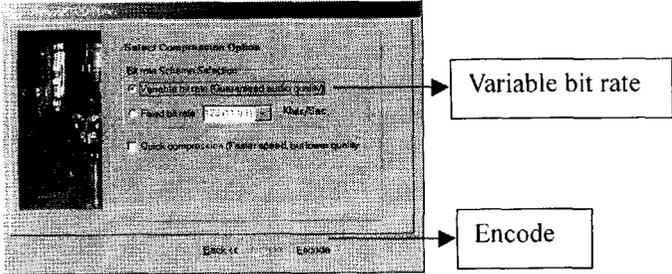
Click Next to the following step after select either digital or analog technology.

Step 3. Select the audio tracks in 「 Check the track(s) you want to compress 」 window. Click Next to the next instruction.

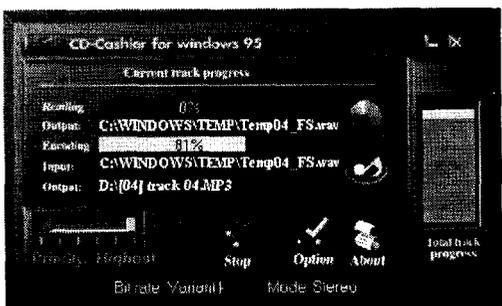


Step 4. Choose directory for MP3 tiles and then click Next.

Step 5. Select the default Variable bit rate (Guaranteed audio quality), to enable exclusive “Psycho Acoustic Model” technology to compress audio data with fine quality. Then click Encode to begin the production of MP3 files.

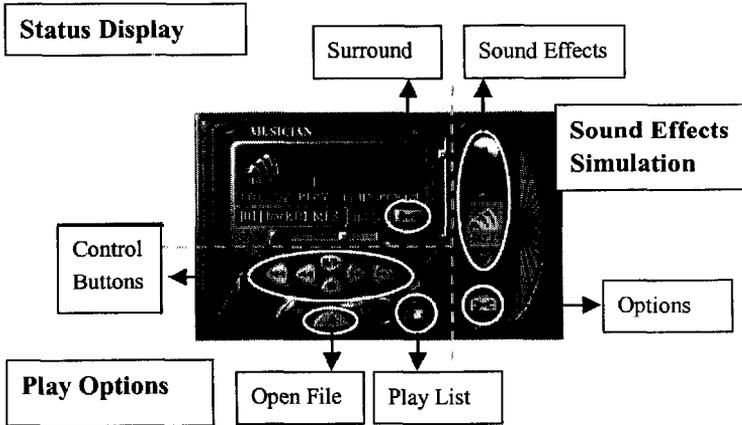


Step 6. After all steps are done, there will be a MP3 compression execution window of CD-Cashier in which you can track the progress of encoding.



Play MP3 files-Use Musician

Start Musician from “Menu Bar” or “Start Menu/Program Files/GAMUT/ Musician”.



The panel consists of 3 individual parts that are Status Display, Play Options and Sound Effects Simulation. Status Display shows the current progress of playing, selected sound effects and sound filed. Play Options consists of control buttons alike real audio panel. Sound Effects Simulation is functional to set up the sound effects in need.

Step 1. Press “ Open File “ button to select MP3 files. For example, open the [04] track 04.MP3 file.

Step 2. After open the selected MP3 files, Musician will play the music directly and we can easily know the playing **progress** such as track name and time from “Status Display”. We can also execute the control buttons in need.

Step 3. Press ” Surround” button to activate 4-channels surround field experience.

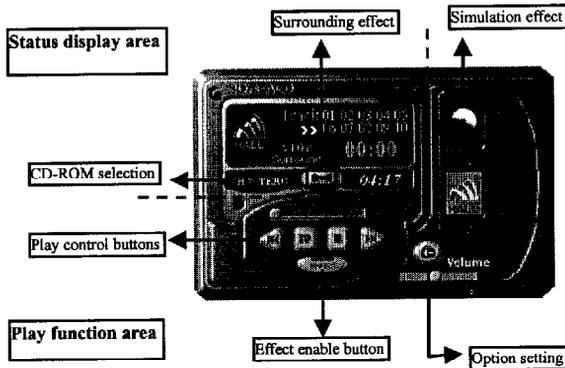
Sound Effects Simulation provides selective simulated digital sound effects such as HALL, VOCAL, SOFT, ROCK and BASS. View the available sound effects by switching the blue up-arrow and down-arrow and enable the selected sound effect by clicking on the associated icons. Selecting the Normal icon disables all sound effects.

Play music CD-Use 3D_{FS}-ACD

Start 3D_{FS}-ACD from “Menu Bar” or “Start Menu/Program Files/Gamut/3DFS-ACD” to activate the program.

Step 1. After 3D_{FS}-ACD is activated, the program will detect the CD in the CD-ROM automatically, and the number of tracks will be shown in the “status display area”. You may start the music by clicking on the track number.

Step 2. Through the control buttons (play, stop, rewind, and forward) , users gain the fully control of music playing.



Step 3. Click on the “Effect” enable button to selecting the simulation effects. After the effect is enabled, users may click on the “surrounding effect” in the play function area to enable the surrounding function.

On the right side of the main panel-“simulation effect” selection area, users can find various digital effect options including : HALL, VOCAL, SOFT, ROCK and BASS. The “NORMAL” picture is provided for users to get “normal” effect.

HALL : Simulate the concert hall effect.

VOCAL : Enhance vocal clarity and the quality of the voice.

SOFT : Enhance the hearing effect, especially suitable for Jazz and New age music.

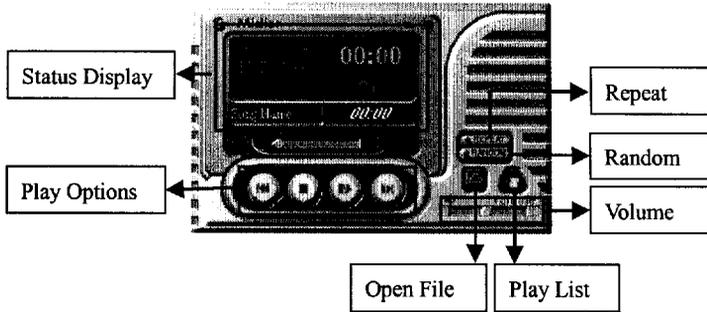
ROCK : Create Rock effect, suitable for dancing music or dynamic music.

BASS : Enhance the bass effect of the music.

When users are using “Effect enable mode”; or switching from one effect to another, there is a 1-3 seconds “Delay Buffer”. The delay time differs from one sound card to another.

Play MIDI files-use Midier

Start Midier from “Menu Bar” or “Start Menu/Program Files/GAMUT/ Midier”.



Step 1. Press “Open File” button to select the required MIDI files by order.

Step 2. Midier will automatically play the selected files and display current status such as track name and time on panel. “Play Options” allow us to activate each functional buttons.

Step 3. “Play List” is designed to manage the selected playing tracks. It’s easy to add or delete tracks of the list and control the playing order.

Regulate the audio sources-Use Mixer

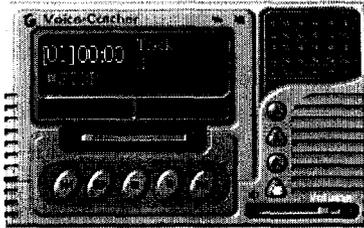
Start Mixer from “Menu Bar” or “Start Menu/Program Files/GAMUT/ Mixer”.

Mixer is used to control the audio sources for playing and recording in computer environments. The sound sources include Wave-out, CD, MIDI, etc. The categories of the audio sources vary with sound cards. Mixer can automatically detect and show the sound sources for the specific sound card in a computer.

The “Mute” button can enable or disable the associated audio source. For each sound source, the vertical scrollbar is volume control and the horizontal scrollbar is balance control. You can also select “Playback” or “Record” to regulate your audio conditions.

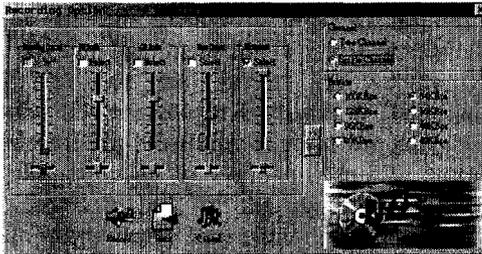
Recording audio data-Use Voice-Catcher

Start Voice catcher from “Menu Bar” or “Start Menu /Program Files/Gamut/Voice Catcher”.



Step 1. Make sure your recording environment setup is ready, click on the **Start recording** button to start the process.

Step 2. Once the recording process is started, users may decide whether or not to compress the source. The system default GM2 recording file is a compressed format. Users may also need to type in the name of the recorded files (users can use “Browser” button to select the desired file for recording. After the file name is typed in, click **Next** for the next step.



Step 3. Select the recording source, and adjust the volume, then select the desired recording mode and compression ratio.

Generally speaking, when recording vocal data, select Single Channel · 64K BPS you will get a good result. A one-hour-data will take only 28MB of the memory. While recording common music files, Two Channel · 128K BPS is suggested for better result. A one-hour-data will take 56Mb of the memory

After the selection is done, single click **Record** button to start recording.

Step 4. Once you have finished the recording task, just click on the **stop** button. Then, users may click on the **Player** button to play the recorded file.