Familiarization Guide

This guide is for experienced HP Support Center personnel and reseller technicians. They have already completed the HP Vectra PC family training course, or equivalent, and have at least six months of experience servicing HP Vectra PCs.

It is a self-paced training guide designed to train you to install, configure, and repair the HP Vectra 500 Series PC (models 520 and 525), introduced as of Q3 1996. You can follow it without having any equipment available.

Vectra 500
S E R I E S

HP Vectra 500 Series PC

Models 520 and 525

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1

Product Overview and Comparisons

After reading this chapter you will be able to describe features specific to
HP Vectra 500 Series PCs (models 520 and 525).

Product Overview

This section describes the HP Vectra 500 Series PCs (models 520 and 525) by highlighting their main features, accessory and mass storage capabilities, and common features.

For information regarding the Q3 1995 collection of Vectra 500 Series PCs, refer to the *Familiarization Guide* for that collection (part number D37xx + 49A-90001). For information regarding the Q1 1996 collection of Vectra 500 Series PCs (models 510 and 515), refer to the *Familiarization Guide* for that collection (part number D4110-90901).

Naming Conventions

The naming convention used by Vectra 500 Series PCs (models 520 and 525) is demonstrated in the following example:

$$\underline{520}\ \underline{MCx}\ \underline{5/200}$$

1st Field   2nd Field   3rd Field
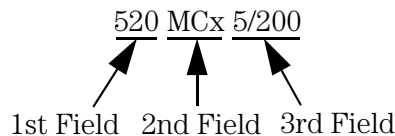
where:

1st Field	5 indicates "Vectra 500 Series" 2 indicates 2nd generation 0 indicates desktop. 5 indicates minitower
2nd Field	Nothing for standard models CD for models equipped with a CD-ROM drive MCx for advanced multimedia and communications models
3rd Field	5 indicates Pentium Second number indicates processor speed: 120, 133, 166 and 200 MHz

Product Line Evolution

There have been three releases of HP Vectra 500 Series PCs. They are:

Release Date	Models
Q3 1995	502, 510, 512, 514, 522, 560, 562, 564, 572, 574
Q1 1996	510 and 515
Q3 1996	520 and 525

Main Features of the HP Vectra 500 Series PCs (models 520 and 525)

			Region	Processor Speed (MHz)	Supplied & Max Memory (in MB)	2nd-Level Cache in KB Supplied & Max Available	CD-ROM (8x)	Audio Fax/Data Modem	Headset	Hard Disk Drive	System Board Type	Video Type
Desktop Models	520 5/133	D4403A	NA[1]	133	12-192	256-256				1.2 GB	Type A[2]	UMA[3]
	520CD 5/133	D4437A	NA	133	16-192	256-256	✓			1.2 GB	Type A	UMA
	520MCx 5/133	D4442A	NA	133	16-192	256-256	✓	✓	✓	1.2 GB	Type A	UMA
	520MCx 5/120	D4428A	NA	120	12-192	256-256	✓	✓	✓	1.2 GB	Type A	UMA
	520 5/133	D4404A	AE	133	12-192	0-256				1.2 GB	Type A	UMA
	520CD 5/133	D4414A	AE	133	16-192	0-256	✓			1.2 GB	Type A	UMA
	520MCx 5/133	D4440A	AE	133	12-192	0-256	✓	✓	✓	1.2 GB	Type A	UMA
	520MCx 5/166	D4443A	AE	166	16-192	256-256	✓	✓	✓	1.6 GB	Type A	UMA
	520 5/133	D4402A	LA	133	12-192	0-256				1.2 GB	Type A	UMA
	520CD 5/133	D4413A	LA	133	12-192	0-256	✓			1.2 GB	Type A	UMA
	520MCx 5/120	D4420A	LA	120	12-192	0-256	✓	✓	✓	1.2 GB	Type A	UMA
	520MCx 5/133	D4479A	B	133	16-128	0-256	✓	✓	✓	1.2 GB	Type B	Integrated
	520MCx 5/166	D4480A	B	166	16-128	256-256	✓	✓	✓	1.6 GB	Type B	Integrated
	520CD 5/133	D4460A	C,I	133	12-192	0-256	✓			1.2 GB	Type A	UMA
	520 5/133	D4434A	APP	133	16-192	256-256				1.6 GB	Type A	UMA

[1] AE = All Europe, LA = Latin America, NA = North America, APP = Asia / Pacific Partner, B = Brazil, C = China, I = India

[2] There are three system board options for models 520 and 525: Type A = Part Number D4051-63001, Type B = Part Number D3657-63001, and Type C = Part Number D3661-63001.

[3] There are three video options for models 520 and 525, corresponding to the three system board types: UMA = Unified Memory Architecture (shared main and video memory), Integrated = video controller and memory on the system board, Matrox = Matrox MGA Millennium video card.

Minitower Models			Region	Processor Speed (MHz)	Supplied & Max Memory (in MB)	2nd-Level Cache in KB Supplied & Max Available	CD-ROM (8x)	Audio Fax/Data Modem	Headset	Hard Disk Drive	System Board Type	Video Type
	525CD 5/133	D4475A	NA[1]	133	16-128	256-256	✓			1.2 GB	Type B[2]	Integrated[3]
	525CD 5/166	D4476A	NA	166	16-128	256-256	✓			1.6 GB	Type B	Integrated
	525CD 5/166	D4422A	NA	166	16-192	256-256	✓			1.6 GB	Type A	UMA
	525CD 5/200	D4470A	NA	200	16-128	256-256	✓			2.5 GB	Type B	Integrated
	525MCx 5/133	D4477A	NA	133	16-128	256-256	✓	✓	✓	1.2 GB	Type B	Integrated
	525MCx 5/166	D4478A	NA	166	16-128	256-256	✓	✓	✓	1.6 GB	Type B	Integrated
	525MCx 5/166	D4439A	NA	166	16-192	256-256	✓	✓	✓	1.6 GB	Type A	UMA
	525MCx 5/200	D4481A	NA	200	32-128	256-256	✓	✓	✓	2.5 GB	Type B	Integrated
	525MCx 5/200	D4471A	NA	200	32-128	256-256	✓	✓	✓	2.5 GB	Type C	Matrox
	525CD 5/166	D4423A	AE	166	16-192	0-256	✓			1.6 GB	Type A	UMA
	525CD 5/200	D4472A	AE	200	16-128	256-256	✓			2.5 GB	Type B	Integrated
	525MCx 5/133	D4416A	AE	133	16-192	256-256	✓	✓	✓	1.2 GB	Type A	UMA
	525MCx 5/166	D4441A	AE	166	16-192	256-256	✓	✓	✓	1.6 GB	Type A	UMA
	525MCx 5/200	D4473A	AE	200	32-128	256-256	✓	✓	✓	2.5 GB	Type B	Integrated
	525CD 5/166	D4425A	LA	166	16-192	256-256	✓			1.2 GB	Type A	UMA
	525MCx 5/133	D4418A	LA	133	16-192	256-256	✓	✓	✓	1.6 GB	Type A	UMA
	525MCx 5/166	D4427A	LA	166	16-192	256-256	✓	✓	✓	1.6 GB	Type A	UMA
	525CD 5/166	D4424A	C,I	166	16-192	0-256	✓			1.6 GB	Type A	UMA
	525MCx 5/133	D4419A	C,I,K	133	12-192	0-256	✓	✓	✓	1.2 GB	Type A	UMA
	525MCx 5/166	D4426A	C,I,K	166	16-192	256-256	✓	✓	✓	1.6 GB	Type A	UMA
	525MCx 5/200	D4482A	C,I,K	200	16-128	256-256	✓	✓	✓	2.5 GB	Type B	Integrated
	525 5/133	D4454A	APP,K	133	16-192	256-256				1.6 GB	Type A	UMA
	525 5/166	D4483A	APP,K	166	16-128	256-256				2.5 GB	Type B	Integrated
	525 5/200	D4474A	APP,K	200	16-128	256-256				2.5 GB	Type B	Integrated

[1] AE = All Europe, LA = Latin America, NA = North America, APP = Asia / Pacific Partner, C = China, I = India, K = Korea

[2] There are three system board options for models 520 and 525: Type A = Part Number D4051-63001, Type B = Part Number D3657-63001, and Type C = Part Number D3661-63001.

[3] There are three video options for models 520 and 525, corresponding to the three system board types: UMA = Unified Memory Architecture (shared main and video memory), Integrated = video controller and memory on the system board, Matrox = Matrox MGA Millennium video card

Accessory and Mass Storage Capabilities

PC Model Type	Accessory Slots	Mass Storage Bays
Desktop	2 ISA Slots (one for half-length cards)	1 Internal
	1 PCI Slot	2 Front-Access[1]
	1 ISA/PCI Combo Slot	1 Internal/Front-Access Combo
Minitower	3 ISA Slots (one for half-length cards)	2 Internal
	2 PCI Slots	4 Front-Access[1]
	1 ISA/PCI Combo Slot	0 Internal/Front-Access Combo

[1] In all models, one front-access bay is occupied by a 3.5-inch floppy disk drive. In models 520CD 5/xxx, 520MCx 5/xxx, 525CD 5/xxx and 525MCx 5/xxx an additional front-access bay is occupied by the CD-ROM drive.

Common Features

The following features are common to all PCs in the HP Vectra 500 Series PC range:

- Windows 95 preinstalled
- User and Administrator passwords
- HP BIOS Flash EEPROM
- One bi-directional parallel port, two serial ports, a VGA connector, a keyboard connector, and a mouse connector
- 100-watt power supply (full range between 90 and 264 VAC) on desktop models
- 160-watt power supply (100-127 and 200-240 VAC manually switchable) on minitower models

Model Comparisons

Overview

HP Vectra 500 Series PCs are Pentium-processor, ISA/PCI-based PCs, housed in desktop and minitower casings. The series is targeted at the Small Business Small Office (SBSO) market.

System Board

There are three system board options for models 520 and 525. The three options can be referred to as Type A, Type B and Type C.

Type A (part number D4051-63001) is a new system board which incorporates a technology known as Unified Memory Architecture (UMA). Using UMA, there is no dedicated video memory. Instead, a portion (1 MB or 2 MB) of main memory is shared as video memory. Refer to Chapter 2 for more information about this system board.

Type B (part number D3657-63001) is the same as the system board used in the Q1 1996 collection (models 510 and 515).

Type C (part number D3661-63001) is used for one product only. This board is the same as the Type B board but without the onboard video controller and memory. Video control and memory is obtained using a Matrox MGA Millennium video card.

Backplane

There are two backplane options for models 520 and 525—one for the desktop and one for the minitower. The two backplanes are the same as those used in the Q1 1996 collection (models 510 and 515).

Case

There are two casing options for models 520 and 525—one for the desktop and one for the minitower. The two backplanes are the same as those used in the Q1 1996 collection (models 510 and 515).

Air Flow Guide

With high speed processors (166 MHz and above), an air flow guide is required to help the fan dissipate the heat from the processor. On desktop models, a special power supply unit integrates the fan over the processor.

2

Casing, System Boards and Video

After reading this chapter you will be familiar with the HP Vectra 500 Series PC (models 520 and 525) casing and hardware assembly.
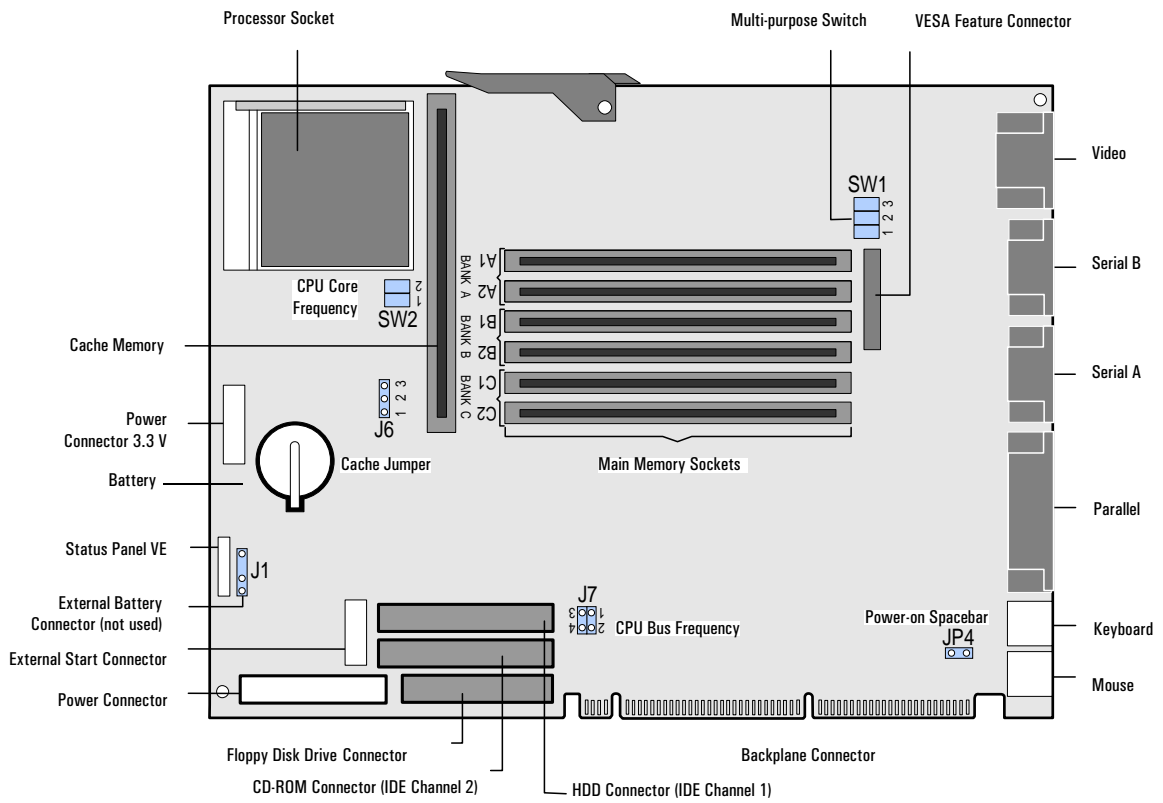
Desktop and Minitower Casing

The casing for models 520 and 525 is the same as that for the Q1 1996 collection (models 510 and 515).

System Board, Switches and Jumpers

As mentioned in Chapter 1, there are three system board options for models 520 and 525. This section describes the Type A system board (part number D4051-63001).

System Board Layout

Processor Socket

Multi-purpose Switch

VESA Feature Connector

Video

SW1
1 2 3

Serial B

BANK A   A1
A2

CPU Core
Frequency
SW2
1 2

BANK B   B1
B2

Serial A

Cache Memory

BANK C   C1
C2

J6
1 2 3

Power
Connector 3.3 V

Cache Jumper

Main Memory Sockets

Parallel

Battery

Status Panel VE

J1

J7
1 2 3 4   CPU Bus Frequency

Power-on Spacebar
JP4

Keyboard

External Battery
Connector (not used)

External Start Connector

Mouse

Power Connector

Floppy Disk Drive Connector

Backplane Connector

CD-ROM Connector (IDE Channel 2)

HDD Connector (IDE Channel 1)

System Board Switches and Jumpers

This section indicates the switches and jumpers used to modify the system settings.

SW1 Switch

This switch is multi-purpose and is used to modify BIOS, CMOS and password settings.

| Switch	Default Setting	OFF	ON	COMMENTS
1	OFF	Flashing Enable	Flashing Disable	Updating the BIOS. Set the security mode. Set the switch to the ON position to prevent the BIOS from being upgraded.
2	OFF	CMOS is in normal operation	CMOS Clear	To clear the CMOS configuration. Set the switch to the ON position and restart the PC. Return the switch to the OFF position and restart the PC to return to normal operation.
3	OFF	Password is in normal operation	Password Clear	To clear the password. Set the switch to the ON position and restart the PC. Return the switch to the OFF position and restart the PC to return to normal operation.

SW2 Switch

This switch is used to select the CPU Bus Frequency / CPU Frequency ratio.

The following table includes some examples of the settings to use for different processor speeds. (Jumper J7 settings are also shown. This jumper is described on the next page.)

| Processor Speeds	Switch Block SW2 Position			Jumper J7 Settings	
	Ratio	1	2	CPU Bus Frequency	Pins Shorted
CPU Frequency 133 MHz	1 / 2	ON	OFF	66 MHz	3 - 4
CPU Frequency 150 MHz	2 / 5	ON	ON	60 MHz	1 - 3
CPU Frequency 166 MHz	2 / 5	ON	ON	66 MHz	3 - 4

CPU Bus Frequency Jumper (J7)

This jumper sets the CPU bus frequency. The following figure shows the possible settings.


| 50 MHz | 60 MHz | 66 MHz |
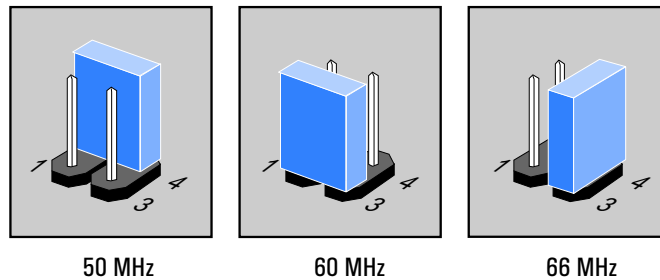
Cache Jumper (J6)

This jumper selects the cache type—either synchronous or asynchronous. The default setting is for synchronous cache. The following figure shows the two settings.

| Synchronous | Asynchronous |
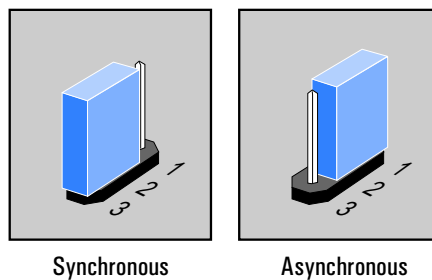
Space-bar Power-on Feature Jumper (JP4)

The Space-bar Power-On feature ("KBD Start" on the system board) enables the PC to be turned on using the spacebar. To enable this feature, a jumper has to be inserted. This setting overrides the setting in the *Setup* program.

Space-bar Power-on
enabled

Space-bar Power-on
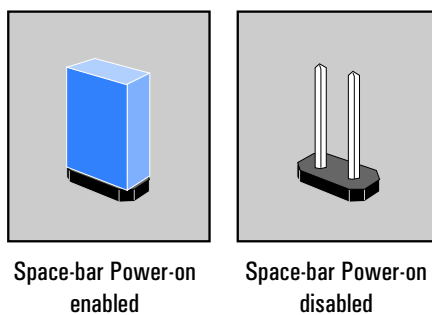
Video Options

With models 520 and 525 there are three video options:

- Video controller and video memory on the system board.
- Video controller and video memory on a video card.
- Video controller on the system board and video memory that is shared main memory.

Video Controller and Video Memory on the System Board

This option is the same as the video option in the Q1 1996 collection (models 510 and 515). That is, 1 MB of video memory as standard on the system board which can be upgraded to 2 MB by installing two memory chips of 512 KB each.
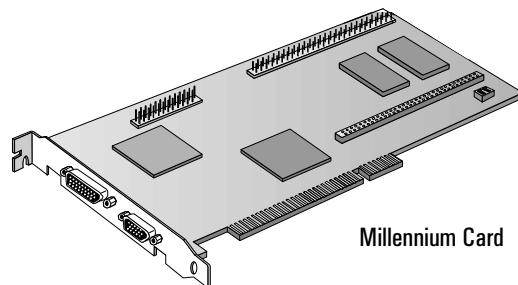
The following video resolutions are typically available.

Resolution	Number of colors	Refresh Rate (Hz)	Memory
640 x 480	16	60	1 MB
640 x 480	256, 64K	60, 72, 75	
800 x 600	256, 64K	56, 60, 72, 75	
1024 x 768	256	i43[1] 60, 70, 75	
640 x 480	16	60	2 MB
640 x 480	256, 64K, 16M	60, 72, 75	
800 x 600	256, 64K, 16M	56, 60, 72, 75	
1024 x 768	256, 64K	i43[1], 60, 70, 75	
1280 x 1024	256	i45[1], 60, 72, 75	

[1]   Interlaced.

Video Controller and Video Memory on a Video Card

Product D4471A is supplied with 2 MB of video memory on a Matrox MGA Millennium card, which can be increased to 4 MB or 8 MB. This PC does not use the integrated video controller and memory. The card is in a PCI slot.

Millennium Card

The following video resolutions are typically available.

Resolution	Number of colors	Refresh Rate (Hz)	Memory
640 x 480	256, 64K, 16M	60 - 120	2 MB
800 x 600	256, 64K, 16M	60 - 120	
1024 x 768	256, 64K	60 - 120	
1600 x 1200 [1]	256	60 - 72	
1024 x 768	256, 64K, 16M	60 - 120	4 MB
1280 x 1024	256, 64K, 16M (24 Bpp) [2]	60 - 90	
1600 x 1200 [1]	256, 64K	60 - 72	
1280 x 1024	256, 64K, 16M	60 - 90	8 MB
1600 x 1200 [1]	256, 64K, 16M	60 - 72	

[1]   Upper limit of refresh rate for HP monitors is 60 Hz.
[2]   Bpp = Bits per pixel

Video Controller on the System Board and Video Memory that is Shared Main Memory

Some PCs have a video system that uses Unified Memory Architecture (UMA). What this means is that the video controller does not use dedicated video memory, but instead uses a portion of main memory as video memory.

The amount of "shared" memory can be set to either 1 MB or 2 MB. To do this, use either the Video Memory Size item in the *Setup* program, or the HP Dynamic Video Feature which is accessible via the Windows 95 Control Panel.

The following video resolutions are typically available.

Resolution	Number of colors	Refresh Rate (Hz)	Memory
640 x 480	16	60	1 MB
640 x 480	256, 64K	60, 72, 75, 85	
800 x 600	256, 64K	56, 60, 72, 75, 85	
1024 x 768	256	i43[1] 60, 70, 75, 85	
640 x 480	16	60	2 MB
640 x 480	256, 64K, 16M	60, 72, 75, 85	
800 x 600	256, 64K, 16M	56, 60, 72, 75, 85	
1024 x 768	256, 64K	i43[1], 60, 70, 75, 85	
1280 x 1024	16, 256	i43[1], 60, 72, 75, 85	

[1]   Interlaced.

3

Multimedia and Communications

The HP Vectra 500 Series PC (models 520 and 525) multimedia and communications option comes with an audio fax/data modem (an Aztech AT3300 card). This chapter describes the audio and communications features of the card.

Aztech AT3300 Connections

The Aztech AT3300 audio fax/data modem incorporates built-in advanced communication and audio telephony features, including the capability to perform simultaneous audio playback and recording, as well as hands-free communication.
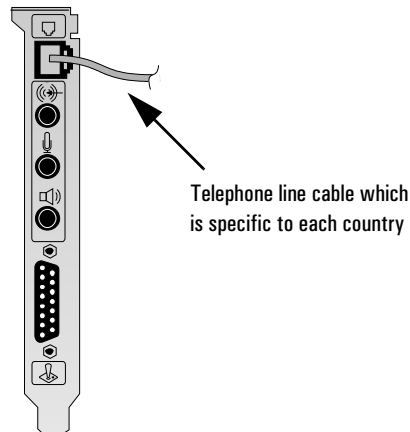
CAUTION: To ensure that the telephony features of the Aztech card function correctly a special phone cable is required. Using standard phone cables will result in a loss of functionality.

Telephone Connections for the U.S., Canada and Spain

The Aztech AT3300 audio fax/data modem only has one external connection so a splitter cable (delivered with the PC) is required to connect the telephone line and handset. The connections are shown below.

Splitter Cable

WALL PHONE

Telephone extension cord is connected here

Telephone Handset is connected here
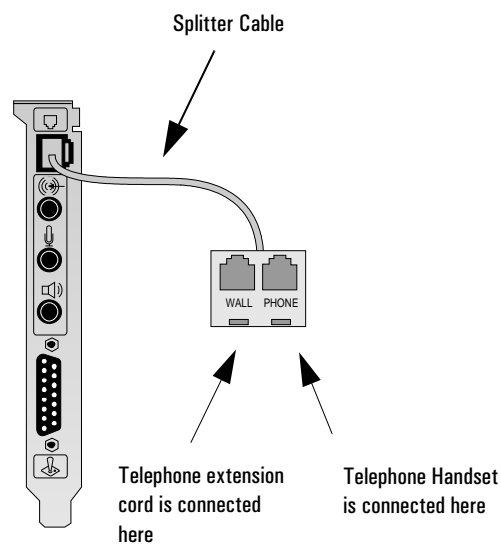
International Telephone Connections

Telephone line cable which
is specific to each country

Connecting Audio Devices to the Rear Panel

Details on the use of each socket on the rear panel are given below:

TEL   Connection for a telephone line.

LINE IN   Connection for devices such as a cassette, DAT, or Minidisc
            player.

MIC   Connection for a microphone.

LINE OUT   Connection for speakers, an external amplifier for audio
            output, a recording device (tape deck) or headphones for
            audio output.

JOYSTICK   Connection for a joystick (for game software) or
            MIDI instrument.

Connecting the Headset

The following figure shows how to connect the headset to the Aztech AT3300 audio fax/data modem.

Audio Fax/Data Modem

Volume Control
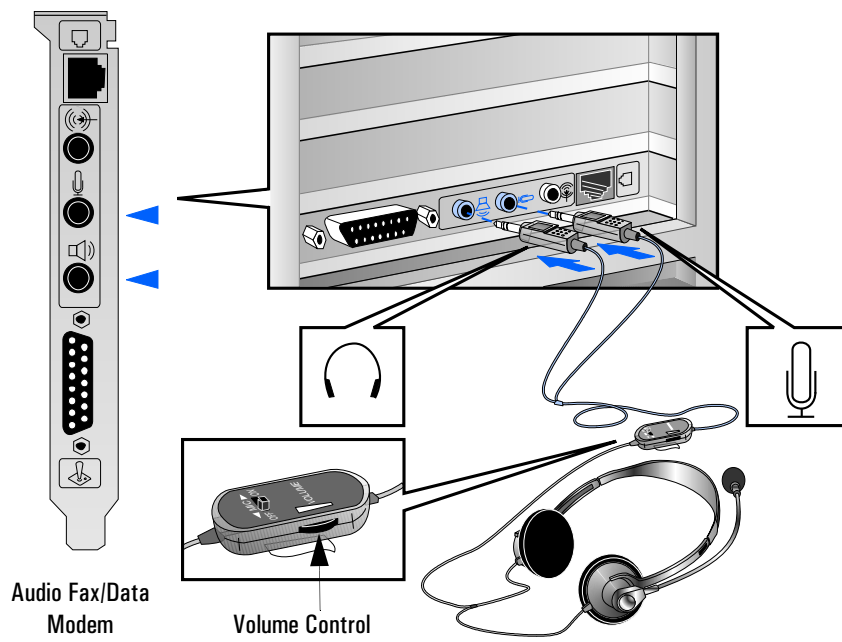
Aztech AT3300 Internal Connections

The Aztech AT3300 audio fax/data modem has several connectors that allow it to be connected to other devices.

U.S. and Canada Internal Connections

The following figure shows where the internal connectors are located on the U.S. and Canada version of the Aztech AT3300 audio fax/data modem.

Waveblaster Connector

CDAUDIO 2 Connector

CDAUDIO 1 Connector

RADIO 1 Connector

TV AUDIO Connector

LOUT 1

JX

MIC 1
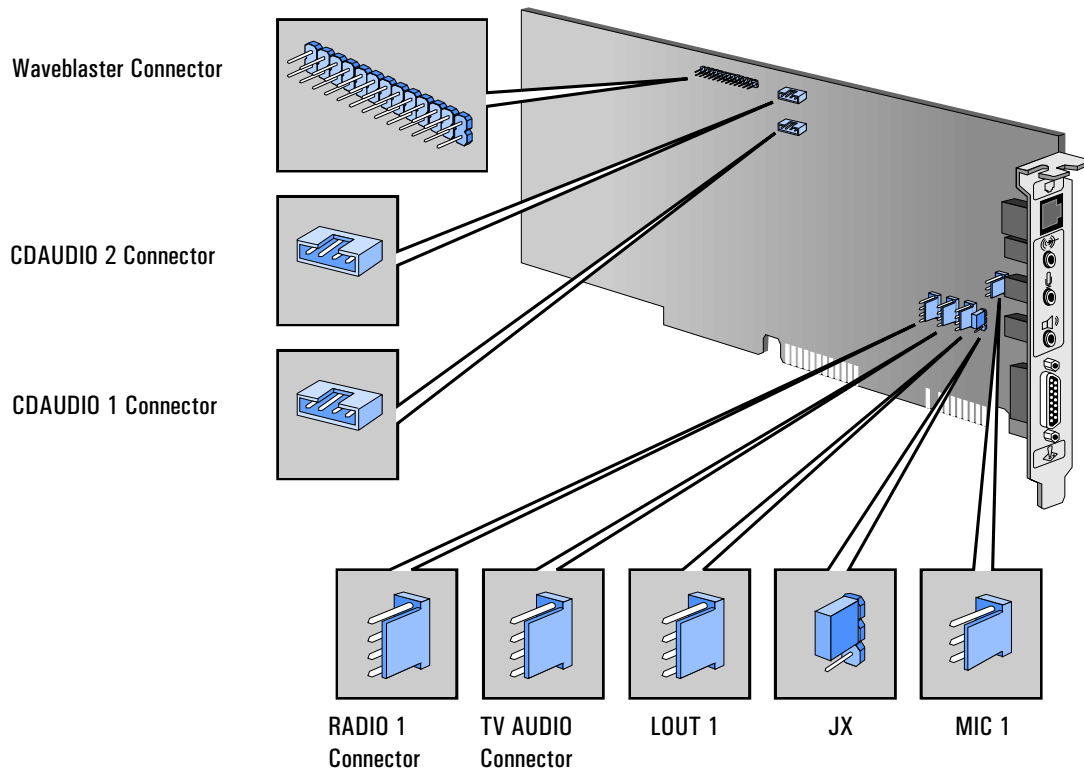
International Internal Connections

The following figure shows where the internal connectors are located on the international version of the Aztech AT3300 audio fax/data modem.
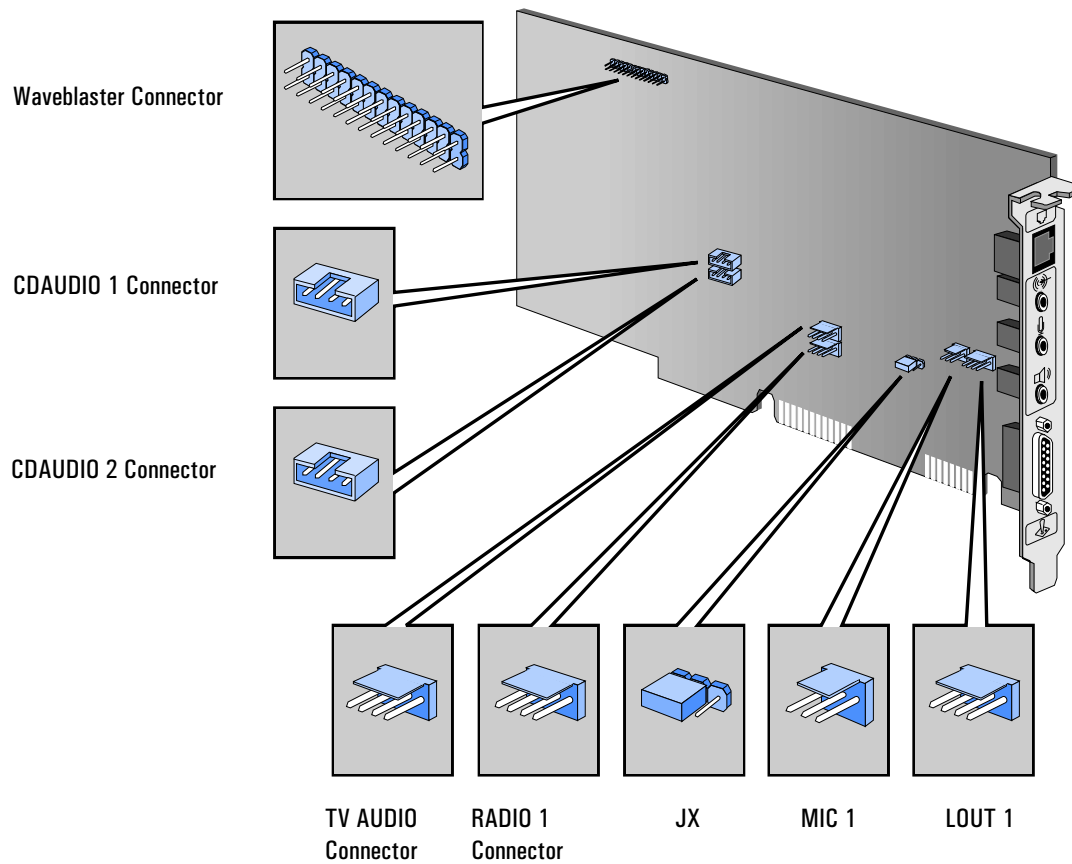
Waveblaster Connector

CDAUDIO 1 Connector

CDAUDIO 2 Connector

TV AUDIO
Connector

RADIO 1
Connector

JX

MIC 1

LOUT 1

Waveblaster Connector

The audio fax/data modem has an on-card connector for the MIDI synthesizer called Wave Blaster. This daughtercard module is capable of producing extremely high-fidelity stereo music for computer audio systems.

CD Audio Connectors

There are two CD Audio Connectors, one labeled "CDAUDIO 1" and one labeled "CDAUDIO 2". These connectors allow the audio fax/data modem to be connected to the CD-ROM drive via the audio cable. Either connector can be used. If one connector is already selected for the CD Audio, the second connector can be used to connect an external sound device.

TV Audio Connector

The TV Audio Connector allows an internal TV audio input from an optional internal TV card to be connected.

Radio Connector

The Radio Connector allows an internal audio input from an optional internal radio card to be connected.

JX Connector

This connector determines the microphone type. It is preconfigured and should not be modified.

MIC Connector

The Microphone Connector is a 3-pin connector that accepts microphone input. It has the same functions as the external microphone connector (refer to "Connecting Audio Devices to the Rear Panel" on page 17). However, only one connector can be selected. If the external microphone is used, for example, the internal connector is disabled.

LOUT Connector

The LOUT Connector has the same function as the external line out connector (refer to "Connecting Audio Devices to the Rear Panel" on page 17). However, only one connector can be selected. If the external line out is used, for example, the internal connector is disabled.

Communications Software

Multimedia and communications models are preloaded with a comprehensive set of communications and sound tools.

The communications software performs a wide range of communications tasks, such as sending and receiving faxes, answering and screening phone calls, and recording voice messages.

4

Displays

This chapter gives details of the displays which are recommended for the
HP Vectra 500 Series PCs (models 520 and 525).

Overview

There are no displays delivered with the HP Vectra 500 Series (models 520 and 525). There is, however, a list of recommended displays. These are listed by region in the following table.

Display Size	Europe	US and Canada	Asia/Pacific and Japan	Latin America
14-inch	D2811A	D2813S	D2811A	D2810A
15-inch	D2808S	D2808S	D2808A	D2808A
15-inch multimedia	D2809A	D2909A	D2809A	D2809A
17-inch	D2817A	D2817A	D2817A	D2817A

Displays for SBSO can be recognized by the 'S' in the part number (for example, D2808S). SBSO displays come with customized documentation, packaging and warranty.

5

Preinstalled Software

HP Vectra 500 Series PCs come preinstalled with a range of software.

Software Packages

The following table shows the software packages delivered with
HP Vectra 500 Series PCs (models 520 and 525).

Preinstalled Software		Available Localizations[1]
Operating System	MS Windows 95	
Business Applications	Adobe Acrobat Reader 2.1 Microsoft Word Microsoft Office Microsoft Excel Microsoft Powerpoint	
Communications Applications	QUIP Proshare TIMTEL HP Message Sender V2.0 PC411 Microsoft Exchange	US, GR FR US
Support/Utilities	Carbon Copy Remote Support 3.0A HP Vectra PC Checkup (low-level hardware diagnostics) McAfee VirusScan95 Scandisk Safe Off Datasafe Remote Backup	US
Online Services	CompuServe America On Line Infovia T-Online Netcom/Netscape	US, FR, UK, GR SP GR US
Setup	HP Registration Card Start Up Sequence	
HP Learning	HP Welcome Center HP Help	
Software Administration	HP Uninstall 2.0	

| Peripherals | Printer Drivers
Video Drivers
LAN Ready | |

[1]US=United States of America, FR=France, GR=Germany, SP=Spain, UK=United Kingdom

All software may be restored using CD-ROMs included with each PC. Version numbers are correct at time of printing.

6

Support Tools

This chapter briefly outlines the support tools available for the HP Vectra 500 Series PCs (models 520 and 525).

Software Recovery

All HP Vectra 500 Series PCs are delivered with a product recovery kit which consists of:

- The HP Product Recovery CD-ROM which contains a backup of the pre-loaded software, excluding business applications.

- The Windows 95 companion CD-ROM.

- Business software applications on CD-ROM (some models only).

The HP Product Recovery CD-ROM may be used to restore all the software (except business applications).

CAUTION: The recovery process formats the hard disk. All files that are on the disk will be lost when the recovery process is performed.

The software recovery process takes between 60 and 90 minutes—depending on the computer's configuration.

The HP Product Recovery CD-ROM also includes the Scandisk utility which can be used to check the hard disk surface, files and folders for damage. The CD-ROM also enables the following floppy disks to be created:

- An anti-virus disk that can be used to search for virus infections on the hard disk (not for Asia / Pacific Partner models)

- A checkup disk that can be used to identify hardware-related problems.

- A Windows 95 startup disk that can be used to start the computer if there are problems with Windows 95.

MicroCom Carbon Copy

All HP Vectra 500 Series PCs sold with the multimedia and communications option are delivered with a restricted version of Carbon Copy.

Carbon Copy allows HP Support personnel to connect and remotely control a client's PC in order to perform high-level troubleshooting. This tool is extremely powerful and should be used only by qualified HP Support Center personnel, and only after consent from the client.

HP Vectra PC Checkup

The HP Vectra 500 Series PCs are equipped with a low-level hardware diagnostics program which can be used to identify hardware-related problems. See the next section, *The HP Checkup Program* for more information.

Service Handbook

The *HP Vectra 500 Series PC Service Handbook* containing service information and part numbers is available.

Updated part number information is also available on the HP-SPI CD-ROM.

Running the HP Vectra PC Checkup

HP Vectra 500 Series PCs are equipped with a checkup program which can be used to identify and fix hardware-related problems. (The checkup program is an enhanced version of the diagnostics toolkit which was delivered with the Spring 1996 models—models 510 and 520.)

Generating an HP Vectra PC Checkup Disk from Within Windows 95

To generate a checkup disk you will need a blank floppy disk available.

1 Click the Start button in the bottom left corner of the screen.

2 Click Programs, then HP Support Utilities, then Diagnosis, then Create Your PC Checkup Disk.

3 Follow the instructions on the screen.

Generating an HP Vectra PC Checkup Disk from the Product Recovery CD-ROM

Refer to the instructions supplied with the Product Recovery CD-ROM.

Running the HP Vectra PC Checkup from a Floppy Disk

1 Shut down the PC in the normal way if you can.

2 Turn off the PC.

3 Insert the checkup program floppy disk that you have created.

4 Turn on the PC.

5 Follow the instructions on your screen.

Running the HP Vectra PC Checkup from the Hard Disk

1 Close down all applications if you can, as the checkup program first exits from Windows 95.

2 Click Start.

3 Point to Programs, then HP Support Utilities, then Diagnosis.

4 Click Run your PC Checkup.

5 Follow the instructions on your screen.

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