
HP OmniBook 3000

Corporate Evaluator's Guide

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Contents

1. Introduction	1-1
Taking Inventory	1-4
Included in the OmniBook 3000 box	1-4
Models and configurations	1-5
Optional OmniBook accessories	1-5
Power Management	1-6
To turn the OmniBook on and off	1-7
To use OmniBook power modes	1-8
To reset the OmniBook	1-9
To set up a hibernation partition	1-9
Checking the Status of the OmniBook	1-11
To read the status panel indicators	1-11
To understand power and battery lights	1-13
Recovering Files, Drivers, and Applications	1-14
Contents of the Recovery CD	1-15
To use the Recovery CD programming service	1-16
To recover a damaged Recovery CD or hard disk drive	1-16
To update the BIOS	1-17
Protecting the OmniBook	1-18
To set a password	1-18
To delete a password	1-19
To attach a security cable	1-20
Identifying System Resources	1-21
2. Using Windows for Workgroups 3.11	2-1
Installing Windows for Workgroups 3.11	2-3
To reformat the hard drive	2-3
To install MS-DOS	2-4
To install Windows for Workgroups 3.11	2-4
To install CD-ROM support	2-5
To install video support	2-6
To install sound support	2-6
To install TouchPad support	2-7
To install PC Card support	2-8
Installing Cards	2-10
To install a New Media LiveWire+ Ethernet PC Card	2-10
To install a Xircom Ethernet 10/100 + modem PC Card	2-12

Working with Windows for Workgroups	2-14
To maximize memory	2-14
To increase performance	2-15
To use DriveSpace compression	2-15
To use the OmniBook 3000 Port Replicator	2-15
3. Using Windows 95	3-1
Installing Windows 95	3-3
To prepare for software installation	3-3
To install Windows 95	3-4
To install video support	3-6
To install sound support	3-7
To install PC Card support	3-8
To install TouchPad support	3-9
To install infrared support	3-10
Installing OmniBook Applications	3-12
To install the online <i>User's Handbook</i>	3-12
To install McAfee VirusScan	3-13
To install HP TopTOOLS	3-13
Installing Cards	3-14
To install a New Media LiveWire+ Ethernet PC Card	3-14
To install a Xircom Ethernet 10/100 + Modem PC Card	3-15
Working with Windows 95	3-17
To automatically detect a CD	3-17
To run an MS-DOS program outside of Windows 95	3-17
To use the OmniBook 3000 Port Replicator	3-18
To resolve infrared problems	3-18
4. Using Windows NT 4.0	4-1
Installing Windows NT 4.0	4-3
To install Windows NT 4.0	4-3
To install video support	4-5
To install sound support	4-7
To install PC Card support	4-7
Installing Mobile Enhancements	4-9
To install CardExecutive	4-10
To install Phoenix APM 2.0	4-10
To use Phoenix APM 2.0 with a CD-ROM drive	4-11
Installing Cards	4-12
To install a New Media LiveWire+ Ethernet PC Card	4-12
To install a Xircom Ethernet 10/100 + Modem PC Card	4-14
Working with Windows NT 4.0	4-16
To use Windows NT 4.0 on a notebook PC	4-16
To use the OmniBook 3000 Port Replicator	4-16

To install TouchPad support	4-17
To install Zip Drive support	4-17

5. Features and Specifications 5-1

Standard Features	5-3
Technical Specifications	5-6
Getting Assistance and Support	5-10
To look up technical information	5-10
To get HP OmniBook assistance	5-14
To find Electronic Support Services	5-15
To contact Customer Support	5-17
To get repair assistance	5-19
Hewlett-Packard Limited Warranty Summary	5-20
Using Electronic Serial Numbers	5-21
To ensure serial number security	5-21
To correct an incorrect serial number	5-22

Introduction



Introduction

Thank you for evaluating the HP OmniBook 3000.

The Mobile Computing Division developed this *Corporate Evaluator's Guide* to facilitate your appraisal of the OmniBook. The guide discusses the machine's major features and provides instruction on specific operating systems. Rebuilding the OmniBook if the hard drive has been formatted and loaded with your company's disk image is discussed for each operating system, particularly addressing OmniBook-specific software, device drivers, and multimedia support. You will find information on system resources, technical specifications, solutions to common problems, and a list of support resources. Much of this information is derived from our standard documentation and is consolidated here to facilitate your evaluation of the OmniBook.

The performance-leading Hewlett-Packard OmniBook 3000 features the following:

- Intel Pentium 200 or 233 MHz processor with MMX technology.
- 512-KB Pipeline Burst Synchronous L2 cache.
- Up to 144 MB of RAM.
- 13.3 inch TFT display.
- PCI BUS architecture.
- Optional internal 20x maximum CD-ROM.
- 2 or 4 GB hard drive.
- Zoomed video.
- PC CardBus.
- 128-bit graphics accelerator with 2 MB EDO video memory.

These features illustrate the uncompromising performance of HP's most powerful notebook PCs ever, laptops fully capable of replacing a desktop computer. The optional port replicator allows single-action connection to multiple peripherals, and the PC CardBus-enabled 32-bit PC Card slots allow 100-Mbps networking and other high-bandwidth applications.

Zoomed Video allows a PC Card to write data directly to graphics memory, providing lifelike, real-time video for training, presentations, or entertainment.

Power management options include several efficient power states that incorporate our unique, instant-on technology, and a convenient System Off button.

The OmniBook typically runs Windows 95, which supports hot docking, Plug and Play, infrared, wireless, data transfer, and hot swapping of accessories such as a battery and floppy disk drive. You may later decide to install Windows for Workgroups 3.11 or Windows NT 4.0: the OmniBook is certified WFW 3.11 and

Windows NT 4.0-compatible. The OmniBook 3000 meets or exceeds industry standards ensuring compatibility and connectivity.

Superlative hardware is augmented by HP TopTOOLS and HP's Desktop Management Interface (DMI). This software ensures efficient management of inventory, configuration, performance, and fault.

A three-year worldwide limited warranty affirms the OmniBook 3000's unmatched quality and reliability. HP's unlimited customer service has earned top ratings for notebook service and support and is available for the price of the phone call.

Taking Inventory

This section describes:

- ◆ What's included in the OmniBook 3000 box.
- ◆ OmniBook 3000 models.

Included in the OmniBook 3000 box

- HP OmniBook 3000.
- AC adapter (HP F1377A) and power cord.
- Floppy disk drive cable (HP F1380A).
- Main battery (HP F1382A).
- The OmniBook *Reference Guide*.
- Microsoft Windows 95 manual and Certificate of Authenticity.
- Support and Service booklet.
- Quick Start sheet.
- List of optional OmniBook accessories.
- OmniBook Recovery CD. Includes Windows 95 recovery, operating system drivers, and online *User's Handbook*.
- Windows 95 Companion CD.

Models and configurations

As of this printing, you can currently purchase two HP OmniBook 3000 models. The following tables describes the features of each.

HP OmniBook 3000CTX 5/200

HP OmniBook Model	Product Number	Pentium® Processor with MMX™ technology	Memory	Display	Hard Disk
3000CT	F1391A	00 MH	1 MB	13.3 TFT GA	.1 billion bytes

HP OmniBook 3000CTX 5/233

HP OmniBook Model	Product Number	Pentium Processor with MMX technology	Memory	Display	Hard Disk
3000CT	F139 A	33 MH	1 MB	13.3 TFT GA	4.0 billion bytes

Optional OmniBook accessories

HP Part Number	Description
F1381A	Port replicator.
F1369A	Monitor stand.
F1387A	20x (maximum) internal CD-ROM drive.
F1363A	16-MB RAM expansion module.
F1364A	32-MB RAM expansion module.
F1365A	64-MB RAM expansion module.
F1385A	2.1-billion-byte hard disk drive.
F1386A	4.0-billion-byte hard disk drive.
F1384A	3.5" internal/external floppy disk drive and cable.
F1388A	Internal Zip drive.
F1382A	Standard Lithium-Ion battery pack.
F1383A	Secondary Lithium-Ion battery pack.
F1377A	AC adapter.
F1379A	Automobile adapter.
F1380A	Replacement floppy disk drive cable.



Power Management

The OmniBook offers power states to accommodate different situations. The blue Power button is the typical method for starting and stopping your OmniBook; however, additional methods allow you to manage power efficiently.

This section describes the following:

- Turning the OmniBook on and off
- Using OmniBook Power Modes.
- Resetting the OmniBook.
- Creating a hibernate partition.

To turn the OmniBook on and off

You can stop the OmniBook several ways. Some methods provide “Instant-On,” so you can quickly continue your work where you left off. Others reboot the computer.

- | | |
|------------------|--|
| On | Press the blue power button to turn on the OmniBook. |
| Standby | Press Fn+S to go into Standby mode.
—or—
Occurs automatically if the computer is inactive and running on battery power for about 2 minutes (by default). |
| Suspend | Press the blue power button for less than 4 seconds to suspend activity when the OmniBook is on. The OmniBook restores your previous work session when you turn it back on.
—or—
From the Start menu, click Suspend
—or—
Press Fn+R
—or—
Close the lid (for more than 2 seconds) also suspends the computer. (If an external monitor is connected, closing the lid merely turns off the built-in display and turns on the external display.) |
| Hibernate | Press Fn+F12. The computer completely shuts down, but your current work session is first saved to disk. The computer will restore your previous session when you turn it back on. |
| Off | From the Start menu, click Shut Down, or press the blue power button for more than 4 seconds to completely shut down the computer. Unsaved data will be lost. The computer will reboot when you turn it back on. |

To use OmniBook power modes

Hint Time-out settings . In order to save power, you can change time-outs to automatically enter different power states after a certain amount of inactivity.

When you	The OmniBook enters	To exit this mode
Press Fn+S or allow time-out.	Standby Mode Turns off the display only. Maintains network connections. Restarts quickly ("Instant-On").	Press any key. Any mouse or TouchPad movement will also exit Standby mode.
Press blue power button or close the lid or click Start, Suspend or allow time-out.	Suspend Mode Turns off the display. Saves significant power. Saves current session in RAM. Restarts quickly ("Instant-On"). Loses network connections. *	Press the power button to resume.
Press Fn+F12 or allow time-out.	Hibernate Mode Saves to disk, then turns off. Saves maximum power. Saves current session on Disk.	Press the power button to turn on and restore the current session.
Click Start, Shut Down (recommended) or Press blue power button longer than 4 seconds.	Off Mode Saves maximum power. Resets everything at startup. Starts a new session.	Press the power button to turn on and reboot.
* Windows 95 can restore network connections when you turn on the OmniBook. For a different operating system, you may have to reboot the OmniBook or restart the operating system to restore them.		

Note If the ac adapter is connected, the OmniBook battery continues to charge in any mode.

To reset the OmniBook

If Windows or the OmniBook stops responding, you can reset the OmniBook and restart Windows.

1. If possible, shut down Windows.
2. Press the blue power button for 4 seconds.
–or, if this fails–
Insert a pen or straightened paper clip into the recess on the back panel between the Parallel and Video ports.
3. After the computer shuts down, press the blue power button to turn it on.

To set up a hibernation partition

There must be a hibernation partition large enough to hold the contents of memory on the hard disk before the OmniBook can hibernate. By default the hibernation partition is 144 MB, large enough to hold the maximum amount of memory allowed in the OmniBook 3000. If you have repartitioned the hard disk, purchased a new hard disk or would like to make the partition smaller follow the instructions below.

CAUTION

This procedure erases the hard disk. Be sure to save any data on your hard disk before started this procedure.

1. Insert the OmniBook 3000 CD-ROM drive.
2. Connect the ac adapter to the OmniBook.
3. Turn on the OmniBook.
4. Press Esc during the Boot process.
5. Insert the OmniBook 3000 Recovery CD.
6. Press the System Off button on the back panel.
7. Press the blue Power button.
8. Press the Esc key during the boot process.

- 
9. Select the CD-ROM Drive then press Enter.
 10. Choose option 3:
Create Hibernation Partition (*erases Hard Disk*)
 11. Choose Y to Continue.
 12. When prompted for “Hibernation” partition size, we recommend that you create a 144-MB partition, the same as the factory default.
Do not interrupt the Hibernation partition process or unplug the ac adapter until complete.
 13. Restart the OmniBook.
 14. Press Esc during the Boot process.
 15. Insert the OmniBook 3000 Recovery CD.
 16. Select the CD-ROM Drive then press Enter.
 17. Choose Exit to MS-DOS from the menu.
 18. Run FDISK to repartition the hard disk. (If you are going to install Windows NT this step is unnecessary. You can repartition the disk during the NT install.)

Checking the Status of the OmniBook

The OmniBook status panel, located above the keyboard, contains indicators that show the current status of the OmniBook. The indicators in the status panel show keyboard status, drive status, and power status.

This section describes how to

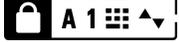
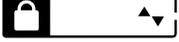
- ◆ Read the status panel indicators.
- ◆ Interpret power and battery lights.

To read the status panel indicators

Indicator	Meaning
	<p>AC power. The ac adapter is plugged in. <i>Blinks</i> when the battery is being charged.</p>
	<p>Battery status. Shows the approximate charge level of the battery relative to a full charge. Each bar (displayed from right to left), represents a 10% charge.</p> <p>The upper and lower triangles indicate the presence of main (upper) and secondary (lower) batteries. A triangle blinks when that battery is charging or is in use. The main battery charges first, discharges last.</p> <p>If two batteries are installed and ac power is not connected, the gauge reports the percent of total charge, where both batteries are included. For example, if the main battery is 50% and the secondary battery is empty then the gauge would read 25%.</p> <p>If two batteries are installed and ac power is connected, the gauge reports the percent of total charge for only the battery that is charging. For example, if the main battery is 50% and the secondary battery is empty, the gauge will read 50% indicating the state of the main battery.</p> <p>You can press Fn + F6 at any time to see the status of each individual battery.</p>

Introduction

Checking the Status of the OmniBook

Indicator	Meaning
	Battery low. The outline blinks when the battery charge is critically low. The OmniBook also beeps.
	Defective battery. An empty battery icon with ac plug not blinking. No battery activity; no charging.
	Overheated battery. The battery is too hot to charge.
	CD-ROM drive, hard disk drive, or Zip drive. The OmniBook is accessing one of these built-in drives.
	Floppy disk drive. The OmniBook is accessing the floppy disk drive.
	PC Card. One or more PC Cards are inserted in the OmniBook.
	Suspend mode. These symbols flash from left to right when the OmniBook is suspended (turned off by pressing the power button briefly). If ac power is not connected, the green power light also blinks slowly.
	Caps Lock. Caps Lock is active.
	Num Lock. Num Lock is active (Fn+F9).
	Keypad Lock. The built-in embedded keypad is active (Fn+F8). Num Lock must also be on for the numeric keys to be active. Otherwise, the default keys are active. .
	Scroll Lock. Scroll Lock is active (Fn+F10).

To understand power and battery lights

Power Lights

The green power light indicates the power state.

Power Light (on hinge)	Meaning
Steady green light	Battery charging.
Blinking light	Not charging (if ac power on). —or— OmniBook in Suspend mode (if ac power off).
No light	Not charging (ac power off).

Battery Lights

The battery itself has four square lights that indicate charge status when you press the square black button on the battery. Each light represents 25% charge.

The green lights on the main battery or secondary battery indicate its charge level.



Recovering Files, Drivers, and Applications

This section describes how to recover lost OmniBook files, drivers, and HP applications, as well as information about recovering a damaged hard disk drive or lost Recovery CD.

In this section you'll find information about the following:

- ◆ Contents of the OmniBook Recovery CD.
- ◆ Using the HP Support programming service.
- ◆ Replacing a lost or damaged Recovery CD or hard disk drive.
- ◆ Updating the OmniBook BIOS.

Contents of the Recovery CD

You can reinstall the OmniBook's factory-installed software with the OmniBook *Recovery CD*. This process reformats the hard drive and installs the OmniBook Windows 95 setup program. Refer to the OmniBook *Reference* guide for complete instructions. The OmniBook Recovery CD contains the following directories:

Directory	Contains
README.TXT	Instructions for using the <i>Recovery CD</i> .
RECOVER\	
ENC	Encrypted Microsoft Windows 95 recovery files. (Usable only in conjunction with the <i>Support Utilities</i> disk.)
BOOTDISK	For creating your own copy of a boot disk (like the FAT32 <i>Support Utility</i> disk).
FILE.CHK	Checksum list (also for FAT32).
OMNIBOOK\	
HPUTILS	Use this to install the online <i>User's Handbook</i> or to copy the OmniBook Notes and Support files to the \OmniBook directory on your hard drive.
DRIVERS	Use this to manually install individual audio, video, infrared, and PC-Card (PCMCIA) drivers for Windows NT 4.0, Windows 95, and Windows for Workgroups. Look for the specific driver for the specific version of your operating system. Each driver has a README file with instructions.
MANUALS	Use this for direct viewing of the online <i>User's Handbook</i> from the CD, not for its installation.

To use the Recovery CD programming service

If you need to recover an operating system, OmniBook drivers, or any other program on the *Recovery CD*, but do not have access to a CD-ROM drive, HP Service can recover these files for you. The cost is a standard charge equal to one-half the hourly labor rate. This service is available for the OmniBook *Recovery CD* only. Microsoft CDs and other non-HP CDs do not qualify for this service.

To recover a damaged Recovery CD or hard disk drive

If you lose or damage the *Recovery CD*, take your OmniBook and Certificate of Authenticity to an HP Service Center to be programmed. If you mail your OmniBook for this service, you *must* provide a photocopy of the Certificate of Authenticity along with payment. Service Centers will replace a defective hard disk drive with a blank hard drive. You can then program the drive using the *Recovery CD* or your custom build process.

To update the BIOS

Hewlett-Packard may update the BIOS to enhance the capabilities of the OmniBook 3000. Updates will be available from HP Electronic Support Services. Refer to the OmniBook Support chapter (page 5-17) for more information.

Important

Because a BIOS update replaces the previous version, it is very important you follow these instructions exactly.

The BIOS update process resets the configuration settings in the System Configuration Utility except for the PC Identification and Passwords.

1. Press the System Off button located on the back panel of the OmniBook between the Video and Parallel ports.
2. Undock.
3. Plug in the ac adapter.
4. Remove any PC Cards.
5. Insert the BIOS Update disk.
6. Press the power button.
7. Choose the correct language.
8. Press C when prompted. This starts a process that takes approximately one minute.
9. Press the System Off button on the back panel when prompted.

Do not interrupt the update process.

Protecting the OmniBook

Your OmniBook provides several ways for you to identify and protect your computer. This section describes how to

- Set up password protection.
- Clear a password.
- Attach a security cable and protect the hard disk drive.

To set a password

If password protection is set, then you will be prompted to enter a password whenever you reset or turn on the computer (depending on your setting). You cannot use the computer until you enter the correct password. To set or change password protection, use the BIOS Setup Utility.

1. Reset the computer and press F2, when prompted, to enter the BIOS Setup Utility. Active keys are described along the bottom of the screen. (The TouchPad does not work in BIOS Setup.)
2. Select the Security menu.
3. Select Set System Password, then Press Enter.
4. Type the new password, then Press Enter. *The password can contain up to eight alphanumeric characters, and it is not case-sensitive.*
5. Type the password again to confirm.
6. Choose when the password will be required: select Password on Boot and, if desired, Password on Resume. Press F5 to select Enabled or Disabled for each.
7. Press F10 to save and exit BIOS Setup.

Note

If a password is set, but Password On Boot is not selected, then the password is still required to get into the BIOS Setup Utility.

Important

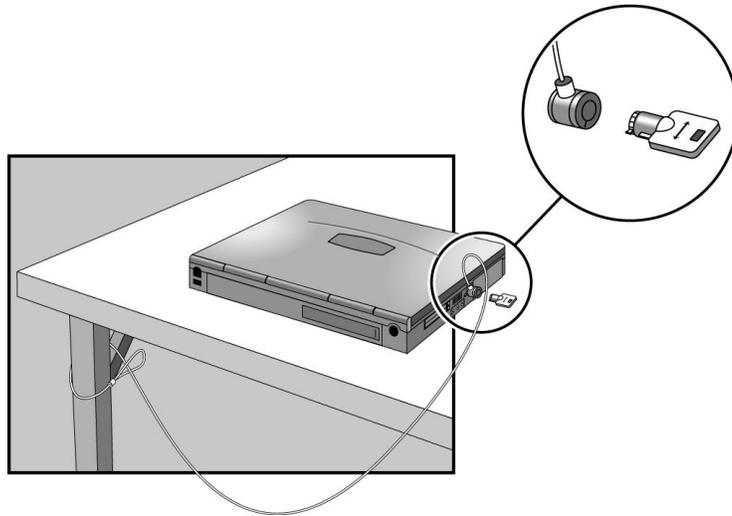
Be sure you record your password in a safe place. If you forget your password, you might need to return your OmniBook PC to Hewlett-Packard for repair. You will also need your proof-of-purchase. Call Hewlett-Packard at the number in the *Support and Service* booklet.

To delete a password

1. Reset the computer and press F2, when prompted, to enter the BIOS Setup Utility. Active keys are described along the bottom of the screen. (The TouchPad does not work in BIOS Setup.)
2. Select the Security menu.
3. Select Set System Password, then Press Enter.
4. Type the current password, then Press Enter.
5. Press Enter at the Enter New Password prompt.
6. Press Enter at the Confirm New Password prompt.
7. Press Continue to save changes.
8. Press F10 to save and exit BIOS Setup.

To attach a security cable

Your OmniBook has a built-in connector that allows you to secure the OmniBook with a cable. The Kensington MicroSaver lock system works with these connectors and is available at many computer stores. The same lock works with an OmniBook port replicator.



Protecting the Hard Disk Drive and Memory

When you have a Kensington MicroSaver lock system connected to the OmniBook, the lock blocks removal of the hard disk drive and memory modules from the OmniBook.

Identifying System Resources

Below are default values for the system resources. To see other, non-default possibilities, refer to the BIOS Setup Utility, which lists port and audio device configurations in the Input/Output menu.

System Resources

The tables in this section show typical resource usage as set up by the OmniBook BIOS. Plug-and-play operating systems, drivers, and BIOS settings may change some of the entries.

System Interrupts

0	System timer
1	Keyboard
	Cascade to IRQ 9
3	Free (or COM2 infrared port, if enabled)
4	COM1 (serial port)
5	Crystal sound
	Floppy drive
	LPT1 (ECP parallel port)
	Real-time clock
9	Free (or MIDI, if enabled)
10	Universal Serial Bus (USB) - assigned by Windows 95 driver
11	CardBus controller - assigned by Windows 95 driver
1	TouchPad
13	Numeric data processor
14	Internal hard disk (primary IDE controller)
15	Internal CD-ROM drive (secondary IDE controller)

System Memory

00000	9FFFF	System memory
A0000	BFFFF	Video
C0000	CBFFF	Video BIOS
CC000	DFFFF	Free (see below)
E0000	FFFFF	System BIOS

Valid uses for memory addresses CC000-DFFFF

- Upper memory blocks (UMBs).
- PC Card memory windows.

System Input/Output Addresses (100-3FF)

1 0 1	Secondary hard disk drive controller (internal CD-ROM)
1F0 1F	Internal hard disk
00 0	Joystick
0 F	Crystal sound
3	Secondary hard disk drive controller (internal CD-ROM)
3 3 F	LPT1 (printer port)
3 3 B	Sound
3B0 3BB	VGA adapter
3C0 3DF	VGA adapter
3E0 3E1	PCMCIA controller
3F0 3F5	Floppy controller
3F	Primary hard disk drive controller
3F	Floppy controller
3F 3FF	COM1 (serial port)

DMA Channels

0	Sound record
1	Sound playback
	Floppy drive
3	LPT1 (ECP parallel port)
4	Cascade
5	Free
	Free
	Free

**Using Windows for
Workgroups 3.11**

Using Windows for Workgroups 3.11

The following procedure installs Windows for Workgroups 3.11 and configures appropriate device drivers.

Requirements

- ◆ OmniBook 3000.
- ◆ MS-DOS 6.22 disks.
- ◆ Windows for Workgroups 3.11 disks.
- ◆ OmniBook 3000 Windows for Workgroups 3.11 drivers.
Location: OmniBook Hard disk drive or Recovery CD in
`\OMNIBOOK\DRIVERS\WFW`.

Before you Start

- This installation assumes you have the default HP Windows 95 build on the hard drive. If you have repartitioned the hard disk drive, please follow the procedure in the Introduction chapter to create the hibernation partition. Reformatting the hard drive before installing MS-DOS and Windows ensures a clean installation.

Installing Windows for Workgroups 3.11

This section describes how to set up the operating system and drivers including the following:

- ◆ Reformatting the hard drive.
- ◆ Installing MS-DOS.
- ◆ Installing Windows for Workgroups 3.11.
- ◆ Installing CD-ROM support
- ◆ Installing video support
- ◆ Installing sound support
- ◆ Installing PC Card support
- ◆ Installing TouchPad support.

To reformat the hard drive

1. Insert the MS-DOS Setup Disk 1.
2. Turn on the computer or press Ctrl+Alt+Del to reboot.
3. Press F3 twice at the MS-DOS Welcome screen.
4. At the MS-DOS prompt, type
format C:.
5. Follow the instructions as they appear.

To install MS-DOS

This section is not intended to replace your MS-DOS Documentation. Please refer to your MS-DOS documentation for specific instructions.

1. Insert the MS-DOS Setup Disk 1.
2. Turn on the computer or press Ctrl+Alt+Del to reboot.
3. Press Enter at the MS-DOS Welcome screen.
4. Enter the requested information or press Enter to accept the defaults.
5. Follow the instructions as they appear.
6. Reboot when prompted.

To install Windows for Workgroups 3.11

This section is not intended to replace your Windows documentation. Please refer to your Windows documentation for specific instructions.

1. Insert the Windows Setup Disk 1.
2. Type A:\SETUP at the MS-DOS prompt.
3. Follow the instructions as they appear.

Important

If you are installing Windows for Workgroups, do *not* install networking at this time. Follow the instructions in the application note for the network card you are using. Application notes are available on our website at:
<http://www.hp.com/go/omnibook> .

4. Return to MS-DOS when prompted.
5. At the MS-DOS prompt type EDIT C:\CONFIG.SYS.
6. Replace the line:
DEVICE=C:\WINDOWS\HIMEM.SYS
with the lines:
DEVICE=C:\DOS\HIMEM.SYS /MACHINE:2 /TESTMEM:OFF
DEVICE=C:\DOS\EMM386.EXE NOEMS X=D000-D1FF
7. Save and exit the MS-DOS Editor.

8. Remove the floppy disk then press and hold the power button for 4 seconds to turn the OmniBook off.

To install CD-ROM support

Requirements

- ◆ OmniBook 3000 with Windows for Workgroups 3.11 installed.
 - ◆ OmniBook 3000 Recovery CD
1. Ensure the OmniBook 3000 is off.
 2. Insert the CD-ROM drive.
 3. Press the blue power button to turn the OmniBook 3000 on.
 4. Press Esc during the Boot process.
 5. Insert the OmniBook 3000 Recovery CD.
 6. Press the System Off button on the back panel.
 7. Press the blue Power button.
 8. Press the Esc key during the boot process.
 9. Select the CD-ROM Drive then press Enter.
 10. Choose Exit to MS-DOS from the menu.
 11. Change directory to G:\OMNIBOOK\DRIVERS\WFW\CDROM.
 12. Type: INSTALL
 13. Select Start Installation and press Enter.
 14. Select Yes to begin the installation.
 15. Press Enter to acknowledge that installation is complete.
 16. Press CTRL-ALT-DEL to reboot.

To install video support

Requirements

- ◆ OmniBook 3000 with Windows for Workgroups 3.11 installed.
 - ◆ OmniBook 3000 driver for video support.
Location: OmniBook hard drive or Recovery CD in
\\OMNIBOOK\DRIVERS\WFW\VIDEO
1. Type Win to start Windows for Workgroups.
 2. From Program Manager, select File, then Run.
 3. Type: d:\OMNIBOOK\DRIVERS\WFW\VIDEO\SETUP and click OK.
 4. Click Next to begin the installation.
 5. Click Finish.
 6. From Control Panel, double-click Video Configuration.
 7. Select 1024x768 Resolution and 65,536 Colors, then click OK.
 8. Click Restart Windows.

To install sound support

Requirements

- ◆ OmniBook 3000 with Windows for Workgroups 3.11 installed.
 - ◆ OmniBook 3000 driver for sound support.
Location: OmniBook hard drive or Recovery CD in
\\OMNIBOOK\DRIVERS\WFW\SOUND
1. From File Manager, create a directory called C:\SOUND.
 2. Copy all files from \\OMNIBOOK\DRIVERS\WFW\SOUND\DISK1 and ..\DISK2 to the C:\SOUND directory.
 3. From Program Manager, select File, then Run,
 4. Type: C:\SOUND\SETUP.

5. Click Yes to continue the installation.
6. Click Yes again to continue the installation.
7. Click Next to accept the default installation directory.
8. Click Yes to reboot.
9. From the File Manager, delete the C:\SOUND directory.

Important

The Crystal Sound Drivers will cause a CrystalWare splash screen to be displayed every time Windows is started. To remove the splash screen, delete the CrystalWare icon from the Windows Startup group.

To install TouchPad support

Requirements

- ◆ OmniBook 3000 with Windows for Workgroups 3.11 installed.
 - ◆ OmniBook 3000 driver for TouchPad support.
Location: OmniBook hard drive or Recovery CD in
\\OMNIBOOK\DRIVERS\WFW\TOUCHPAD
1. Exit Windows.
 2. Type d:\OMNIBOOK\DRIVERS\WFW\TOUCHPAD\INST31.
 3. Press Enter at the Welcome screen to begin the installation.
 4. Select MS-DOS and Windows and press Enter.
 5. Press enter to accept the default driver directory
 6. Press Enter to update your AUTOEXEC.BAT and CONFIG.SYS files
 7. Press Enter to reboot the OmniBook.
 8. To change the TouchPad settings, run the Synaptics TouchPad icon in the Control Panel.

To install PC Card support

Requirements

- ◆ OmniBook 3000 with Windows for Workgroups 3.11 installed.
 - ◆ OmniBook 3000 driver for PC Card support.
Location: OmniBook hard drive or Recovery CD in
\\OMNIBOOK\DRIVERS\WFW\PCCARD
1. Create a directory called C:\CARDWIZ.
 2. Copy all files from d:\OMNIBOOK\DRIVERS\WFW\PCCARD\CARDWIZ to C:\CARDWIZ.
 3. Enter the following lines into the C:\CONFIG.SYS in the order shown.

Important

You can copy and paste these lines from the README.TXT file located in the PC Card driver directory. The REM lines are not necessary. They are simply for explaining the driver.

REM – OmniBook Socket Services driver required for card slot support
device=C:\CARDWIZ\SS365LP.EXE

REM – Card Services driver required for card slot support
device=C:\CARDWIZ\CS.EXE /POLL:1

REM – Initial resource allocation required for card slot support
devicehigh=C:\CARDWIZ\CSALLOC.EXE

REM – ATA card driver required for ATA cards
devicehigh=C:\CARDWIZ\ATADRV.EXE /S:2

REM – Driver required for RAM cards
devicehigh=C:\CARDWIZ\MTSRAM.EXE

REM – Memory card driver required for all memory cards
devicehigh=C:\CARDWIZ\MTDDRV.EXE

REM – Card identification driver required for card other than memory cards
devicehigh=C:\CARDWIZ\CARDID.EXE

REM – Card Services APM support required for card slot support
install=C:\CARDWIZ\CS_APM.EXE

4. Add the following lines to the [386Enh] section of C:\WINDOWS\SYSTEM.INI.

Important

You can copy and paste these lines from the README.TXT file located in the PC Card driver directory.

```
[386Enh]
COM2Base=2F8
COM2Irq=3
COM1Base=3F8
COM1Irq=4
device=C:\CARDWIZ\SSVRDD.386
device=C:\CARDWIZ\SSVCD311.386
device=C:\CARDWIZ\PCCARD.386
EmmExclude=D000-DFFF
```

after FileSysChange=Off change the following four lines to read as follows:

```
COM3Irq=3
COM3Base=3E8
COM4Irq=4
COM4Base=2E8
```

change

```
device=*vcd
to
;device=*vcd
```

5. Copy
d:\OMNIBOOK\DRIVERS\WFW\PCCARD\WINDOWS\SYSTEM\CTL3DV2.DLL to
C:\WINDOWS\SYSTEM.
6. Restart the OmniBook 3000.

Installing Cards

This section describes how to install the following:

- ◆ New Media LiveWire+ Ethernet PC Card.
- ◆ Xircom Ethernet 10/100 + Modem PC Card.

To install a New Media LiveWire+ Ethernet PC Card

Requirements

- ◆ OmniBook 3000 with Windows for Workgroups 3.11 installed.
- ◆ New Media LiveWire+ Ethernet PC Card.
- ◆ New Media LiveWire+ Install Disk.
- ◆ This procedure assumes that Card and Socket Services are being utilized.

Configuration

- ◆ Interrupt: 09.
- ◆ I/O Port address: 300, 310, 320 or 340.
- ◆ Memory Range: D0000.

1. Start the OmniBook.
2. Insert the PC Card.
3. From Program Manager, double-click Network group, then Network Setup.
4. Click Network.
5. Select Installing Windows Network, then click OK.
6. Click Drivers, then click Add Adapter.
7. Double-click Unlisted Or Updated Network Adapter.
8. Insert the driver disk into A:\, then click OK.
9. Select the New Media LiveWire+ Full Duplex Ethernet LAN driver, then click OK.
10. Click Close, then click OK.

11. Enter a workgroup if appropriate.
12. Insert Windows for Workgroups 3.11 Disks 7 and 8 when prompted.
13. Reinsert the drivers disk when prompted.
14. Click OK to accept that the system files have been modified.
15. Click Continue.
16. Exit Windows.
17. Type A:\INSTALL
18. Press any key to continue.
19. Press Enter to begin the installation.
20. Press Enter to accept the C: drive.
21. Press Enter to accept the default directories.
22. Select Microsoft Windows for Workgroups and press Enter.
23. Press Enter to accept the C: drive.
24. Press Enter to accept the Network drivers directory.
25. Select Install MS-DOS and Windows components and press Enter.
26. Press Enter to accept the Windows directory.
27. Select whether you are using Full Duplex or not and press Enter.
28. Select Update CONFIG.SYS and Create Backup and press Enter.
29. Select Accept Configuration Settings and press Enter.
30. Press any key to continue.
31. Select Exit Program and press Enter.
32. Type EDIT C:\CONFIG.SYS.
33. Change the following line:
 DEVICE=C:\NEWMEDIA\LWPLUS\LWPLUS.EXE
 to
 DEVICE=C:\NEWMEDIA\LWPLUS\LWPLUS.EXE /APM=OFF
34. Save and exit the file.
35. Restart the OmniBook by pressing Ctrl-Alt-Del.

To install a Xircom Ethernet 10/100 + modem PC Card

Requirements

- ◆ OmniBook 3000 with Windows for Workgroups 3.11 installed.
- ◆ Xircom Ethernet 10/100+Modem PC Card.
- ◆ Xircom Drivers Disk 2.

Configuration

- ◆ Interrupt: 3.
- ◆ I/O Port address: 300.

1. Start Windows for Workgroups.
2. Insert the PC Card.
3. From Program Manager, double-click Network group, then Network Setup.
4. Click Network.
5. Select Install Microsoft Windows Network, then click OK.
6. Click Drivers, then Add Adapter.
7. Double-click Unlisted Or Updated Network Adapter.
8. When prompted, insert the Xircom driver disk into drive A, then click OK.
9. Select Xircom XCEM NDIS 2.01 Real Mode, then click OK.
10. Click Close.
11. Click OK.
12. Enter your network information and click OK.
13. Windows may ask for the Windows for Workgroups disk 7 and disk 8. Insert the disk when requested and click OK.
14. Reinsert the Xircom Drivers disk when prompted.
15. Click OK to accept the changes to AUTOEXEC.BAT, SYSTEM.INI, and PROTOCOL.INI
16. Click Continue (Do not Restart the Computer).

17. Edit the C:\CONFIG.SYS file and change the following line:
DEVICE=C:\DOS\EMM386.EXE NOEMS X=D000-D1FFF
to
DEVICE=C:\DOS\EMM386.EXE NOEMS X=D000-D3FFF
18. Reboot the OmniBook.

Working with Windows for Workgroups

This section describes how to customize the OmniBook for use with Windows for Workgroups including the following:

- ◆ Maximizing memory.
- ◆ Increasing performance.
- ◆ Using DriveSpace compression.
- ◆ Using the OmniBook 3000 Port Replicator.

To maximize memory

Certain situations require a large segment of conventional memory. For instance, an application may require SCSI drivers as well as network drivers, and still require additional conventional memory. In Windows 3.1 and Windows for Workgroups 3.11, conventional memory is freed by optimizing upper memory and loading specified device drivers high. The following will provide 136K of upper memory.

1. Edit the EMM386 line in CONFIG.SYS as follows:

```
device=c:\dos\emm386.exe noems i=b000-b7ff x=c000-cbff  
i=cc00-cfff x=d000-d1ff i=d200-dfff x=e000-ffff
```

Some applications require the UMB b000-b7ff (the VGA monochrome memory area). In this instance, a memory conflict can occur. If the application does not require the VGA monochrome memory area, there will be no conflict.

2. Add the following line to the [386Enh] section of the SYSTEM.INI file:

```
device=monoumb.386
```

The default EMM386 line allots PC Cards 8K of upper memory.

3. If you are using a PC Card that requires more upper memory change the EMM386 to read as follows:

```
device=c:\dos\emm386.exe noems i=b000-b7ff x=c000-cbff  
i=cc00-cfff x=d000-d7ff i=d800-dfff x=e000-ffff
```

4. The C:\CARDWIZ\CSALLOC.INI file needs to be edited to reflect the emm386 line change. The CONFIG.SYS and the CSALLOC.INI files have pre-configured lines for either 8K or 32K of PC Card support. Simply remove the # in the

C:\CARDWIZ\CSALLOC.INI file and remove the REM in CONFIG.SYS according to the instructions contained in each file.

To increase performance

In Windows for Workgroups, you can get your OmniBook to work even faster by optimizing the amount of memory reserved for reading and writing files.

1. From Control Panel, double-click Enhanced.
2. Click Virtual Memory, then click Change.
3. Click the Use 32-Bit File Access check box, then click OK to save.

Important

Do not check the Use 32-bit Disk Access option. This is *not* recommended for PCs that support Advanced Power Management.

4. When prompted, choose Restart Computer to activate the new setting.

To use DriveSpace compression

If you use Microsoft DriveSpace to compress the data on drive C, check the CONFIG.SYS to ensure proper operation.

1. From the File menu in Program Manager, choose Run.
2. Type SYSEDIT in the command line, then choose OK.
3. In the CONFIG.SYS window, check the end of the file. If the DRVSPACE.SYS line comes after the IFSHLP.SYS line, move the IFSHLP.SYS line to the end of the file.
4. Save your changes, exit Windows, then press Ctrl-Alt-Del to reboot.

To use the OmniBook 3000 Port Replicator

The OmniBook 3000 Port Replicator has the same ports as the OmniBook 3000. You can dock and undock the OmniBook 3000 while Windows for Workgroups 3.11 is running there is no reason to restart the OmniBook.

Using Windows 95

Using Windows 95

Windows 95B OEM Service Release 2.1 comes factory-installed on the OmniBook 3000. The following procedure installs a retail version of Windows 95A and configures appropriate device drivers.

Requirements

- ◆ OmniBook 3000.
- ◆ *Windows 95 Installation CD*.
- ◆ Two blank floppy disks.
- ◆ The OmniBook 3000 *Recovery CD*.
- ◆ OmniBook 3000 Internal CD-ROM
- ◆ HP OmniBook 3000 Windows 95 drivers.
Location: OmniBook hard drive or Recovery CD in
\\OMNIBOOK\DRIVERS\WIN95.

Before You Start

- The Windows 95 installation requires a newly formatted hard drive. Follow these steps to format the hard drive and install Windows 95 from a CD-ROM.

Installing Windows 95

This section describes how to set up the operating system and drivers including

- ◆ Reformatting the hard drive.
- ◆ Installing Windows 95A.
- ◆ Installing video support.
- ◆ Installing sound support.
- ◆ Installing PC Card support.
- ◆ Installing TouchPad support.
- ◆ Installing Infrared support.

To prepare for software installation

1. Turn off the OmniBook by holding down the blue power button for 4 seconds.
2. Insert the OmniBook 3000 CD-ROM drive and connect the floppy disk drive to the Parallel port using the supplied cable.
3. Turn on the OmniBook 3000.
4. Press Esc during the Boot process.
5. Insert the OmniBook 3000 Recovery CD.
6. Press the System Off button on the back panel.
7. Press the blue Power button.
8. Press the Esc key during the boot process.
9. Select the CD-ROM Drive then press Enter.
10. Choose Exit to MS-DOS from the MS-DOS menu.
11. Type format C: /S /U.
12. Type Y to confirm format.
13. Enter a Volume label, then press Enter.
14. Insert a blank floppy disk in the A: drive.
15. Go to G:\RECOVER\BOOTDISK and type MAKEDISK.

16. Type B, then Y.
17. Press any key to begin.
18. Type N to exit.
19. Remove the OmniBook 3000 Recovery CD and press Ctrl-Alt-Del to reboot.
(Leave the new Support Utility Disk in the A: drive)

To install Windows 95

1. Insert the Windows 95 installation CD.
2. Choose Exit to MS-DOS from the Windows 95 Startup Menu.
3. Go to G:\WIN95 and type SETUP, then press Enter
4. Press Enter again when prompted to perform a routine check of the system.

Important

The following error will appear, press Esc key to continue with setup.

Note: This version of Microsoft Scandisk will work only with MS-DOS version 5.0 and later. Setup found a compressed volume or a disk-cache utility on your computer. Quit setup and check your compressed volume with your disk compression software or remove the disk cache utility. Then run setup again or choose Esc to continue with setup.

5. When the Welcome to Windows 95 Setup screen appears, click Continue.
6. If you accept the license agreement, click Yes.
7. Click Next to accept Collecting Information About Your computer.
8. Click Next to accept the default of C:\WINDOWS (or enter a different directory).
9. Choose Portable on the Setup Options screen, then click Next.
10. Enter the Product Identification Number, then click Next.
The Product Identification Number is located on the Certificate of Authenticity that you received with your retail version of Windows 95.
11. Enter User Information—your Name and Company, then click Next.
The Analyzing Your Computer screen prompts you for detecting devices.
12. Do not detect any Network, Sound, MIDI, or Video Capture Card devices, then click Next.

13. The Get Connected Screen prompts you for additional components. After your selection, click Next.
14. Select Install The Most Common Components (recommended), then click Next.
15. Click Yes to accept the Startup Disk, then click Next.
16. Click Next to start Copying Windows 95 Files to Your Computer.
17. The Setup Wizard is now copying files. Insert a blank disk into the A drive when requested, then click OK.
18. Remove the disk, reinsert the Support Utility Disk, then click OK when the copy is finished.
19. Label the disk "Windows 95 Setup Boot Disk."
20. When prompted, click Finish to restart Windows 95.
21. Remove the Support Utility Disk and click OK.

Important

When rebooting, Windows 95 will halt at the HIMEM.SYS line. To reboot press the System Off button located on the back panel of the OmniBook 3000, then press the blue power button to restart the computer.

21. The Windows 95 Setup Wizard will now configure hardware, Control Panel, programs on the Start menu, Windows help, the MS-DOS program settings, Time Zone, and Microsoft Exchange. Enter any changes when the system displays the Time Zone screen. If you chose Microsoft Exchange during the installation, enter the information or click Cancel to enter it later.
22. When prompted to set up a printer, click Cancel. *Do not install a printer at this time. You will not be able to access the Windows 95 Installation CD until you reboot.*
23. Click OK to restart the OmniBook.
24. Click Close at the Windows 95 Welcome Screen.
25. Open a text editor of your choice and add the following line to the C:\CONFIG.SYS file.
DEVICE=C:\WINDOWS\HIMEM.SYS /MACHINE:2 /TESTMEM:OFF
26. Save the file.
27. Copy the files in d:\WIN95 from the Windows 95 Installation CD to C:\WINDOWS\OPTIONS\CABS.
28. Copy the files in d:\OMNIBOOK\DRIVERS\WIN95 from the OmniBook 3000 Recovery CD to C:\OMNIBOOK\DRIVERS\WIN95.

To install video support

Requirements

- ◆ OmniBook 3000 with Windows 95 installed.
- ◆ OmniBook 3000 driver for video support.
Location: OmniBook hard drive or Recovery CD in
\\OMNIBOOK\DRIVERS\WIN95\VIDEO.

1. From Control Panel, double-click Display, then click Settings.
2. Click Change Display Type.
3. Under Adapter Type, click Change.
4. Click Have Disk.
5. Enter the directory of the video drivers, then click OK.
6. Click OK to select NeoMagic MagicGraph 128XD.
7. Under Monitor Type, click Change.
8. Choose Laptop Display Panel (1024x768), then click OK.
9. Click Close.
10. Select the correct Desktop Area for the OmniBook you are using. Choose High Color if desired.
11. Click Close in Display Properties, then click Yes to restart the computer now.

To install sound support

Requirements

- ◆ OmniBook 3000 with Windows 95 installed.
- ◆ OmniBook 3000 driver for sound support.
Location: OmniBook hard drive or Recovery CD in
\\OMNIBOOK\DRIVERS\WIN95\SOUND.

1. From Control Panel, double-click Systems.
2. Click Device Manager.
3. Open the Unknown device under Other Devices, and confirm the following resources in the Resource tab

Direct Memory Access	01
Direct Memory Access	00
Interrupt Request	05
Input/Output Range	0530-0537
Input/Output Range	0388-038B
Input/Output Range	0220-022F

4. Click on the Driver tab, then click Change Driver.
5. Select Other detected devices then click OK.
6. Click Have Disk.
7. Enter the directory of the sound drivers and click OK.
8. Click OK to accept Crystal PnP Audio System CODEC.
9. Click OK to close the Unknown Device Properties window.
10. If prompted, insert the Windows 95 Installation CD and change the directory to D:\WIN95 or change the directory to C:\WINDOWS\OPTIOS\CABS, then click OK.
11. Open the other Unknown device under Other devices.
12. Click on the Driver tab, then click Change Driver.
13. Select Other detected devices then click OK.
14. Click OK to accept Crystal PnP Audio System Control Registers.

15. Click OK to close the Unknown Device Properties window.
16. Click OK to close System Properties.
17. Shut down and restart Windows 95.

To install PC Card support

Requirements

- ◆ OmniBook 3000 with Windows 95 installed.
 - ◆ HP OmniBook PC Card drivers.
Location: OmniBook hard drive or on Recovery CD in
OMNIBOOK\DRIVERS\WIN95\PCCARD\950AONLY
1. Copy all .VXD files from OMNIBOOK\DRIVERS\WIN95\PCCARD\950AONLY to C:\WINDOWS\SYSTEM.
 2. Copy all .INF files from OMNIBOOK\DRIVERS\WIN95\PCCARD\950AONLY directory to C:\WINDOWS\INF.
 3. Answer Yes to overwrite the old .INF files with the new .INF files.
 4. Click Start, Run and type:
REGEDIT d:\OMNIBOOK\DRIVERS\WIN95\PCCARD\950AONLY\PCMCIA.REG or
double-click on PCMCIA.REG in Windows Explorer
 5. When you see a message that the registry has successfully been updated, click OK
 6. From Control Panel, double-click System.
 7. Click Device Manager.
 8. Under PCMCIA Socket, double-click on the device with the red X.
 9. Under General, in the Properties page, check Device Usage to enable this device in the current profile called Original Configuration (Current).
 10. Click OK.
 11. The PCMCIA Installation Wizard will automatically start and step you through the installation of the drivers.
 12. Click Next at the Welcome screen.

13. Click Next to accept the default selection.
14. Click Finish
15. Click Yes to shutdown and restart Windows 95.

To install TouchPad support

The OmniBook 3000 TouchPad works perfectly with the built in Windows 95 mouse driver. If you want to take advantage of the TouchPad's enhanced features you must install the TouchPad driver. (Refer to the OmniBook 3000 Reference Guide for more information on the TouchPad.)

Requirements

- ◆ OmniBook 3000 with Windows 95 installed.
 - ◆ OmniBook 3000 driver for TouchPad support
Location: OmniBook hard disk or Recovery CD in
\\OMNIBOOK\DRIVERS\WIN95\TOUCHPAD
1. Go to the directory of the TouchPad driver and run SETUP.EXE
 2. Click Next at the Welcome screen to begin the Synaptics TouchPad Driver Installation.
 3. Click Next to accept the default directory (C:\Program Files\Synaptics)
 4. Click Next to start copying files.
 5. Press Enter to restart the computer.

To install infrared support

Requirements

- ◆ OmniBook 3000 with Windows 95 installed.
 - ◆ HP OmniBook driver for infrared support.
Location: OmniBook hard drive or Recovery CD in
\\OMNIBOOK\DRIVERS\WIN95\IRDA ..\FASTIR.
1. Go to the infrared drivers directory (\\OMNIBOOK\DRIVERS\WIN95\IRDA) and copy the .INF files to C:\WINDOWS\INF:
 2. If prompted to overwrite old files, click Yes.
 3. Reboot the OmniBook.
 4. When prompted, press F2 to open the BIOS Setup Utility.
 5. Go to the System Devices menu.
 6. Set the Infrared Port to Enabled.
 7. Set the Mode to FIR.
 8. Set the Base I/O address to either 2F8 IRQ3 or 3F8 IRQ4
 9. If necessary set the DMA Channel to DMA 3.
 10. Save and exit the BIOS Setup Utility.
 11. Select Driver from disk provided by hardware manufacturer.
 12. Enter the directory of the infrared drivers (\\OMNIBOOK\DRIVERS\WIN95\FASTIR) and click OK.
 13. Shutdown and restart Windows 95.
 14. Go to \\OMNIBOOK\DRIVERS\WIN95\IRDA and run SETUP.
 15. Click Next to run the Add Infrared Device Wizard.
 16. Click Next to accept the Built-In Infrared port on laptop.
 17. Select SMC IrCC (Fast Infrared) Hardware and Driver, then click Next.
 18. Click Next to accept the default ports (COM4 and LPT3).
 19. Click Finish.
 20. Run Windows Explorer.
 21. From the View menu click Options.

22. Select Show all Files and deselect Hide MS-DOS file extensions for file types that are registered, then click OK.
23. Right-click on SMCIRLAP.INF in the \OMNIBOOK\DRIVERS\WIN95\FASTIR directory.
24. Click Install off the pop-up menu.
25. If prompted for the location of SMCIRLAP.INF enter \OMNIBOOK\DRIVERS\WIN95\FASTIR, then click OK.
26. Shutdown and restart Windows 95.

Installing OmniBook Applications

The OmniBook 3000 ships with the online *User's Handbook*, McAfee VirusScan, and HP TopTOOLS.

Requirements

- ◆ OmniBook 3000 with Windows 95 installed.
- ◆ HP OmniBook online *User's Handbook*.
Location: Recovery CD in \OMNIBOOK\HPUTILS.
- ◆ McAfee VirusScan software.
Location: OmniBook hard drive or Recovery CD in \OMNIBOOK\DRIVERS\WIN95\VIRUSCAN.
- ◆ HP OmniBook DMI software.
Location: OmniBook hard drive or Recovery CD in \OMNIBOOK\DRIVERS\WIN95\DMI.

To install the online *User's Handbook*

You can install the online *User's Handbook* from the *Recovery CD*. This procedure also installs OmniBook Notes and Support files to your hard drive.

1. Connect the ac adapter to the OmniBook.
2. If you have an internal CD-ROM drive, install it in the OmniBook.
-or-
If you have a PC Card or parallel port CD-ROM drive, connect the PC Card or parallel port CD-ROM drive.
3. Insert the *Recovery CD* in the CD-ROM drive.
4. From the \OmniBook\Hputils\Disk1 directory on the CD, double-click setup.exe. The OmniBook Application Software Setup screen appears.
5. Click Next.
6. Click "OmniBook Online Documentation."
7. Click Install Now.
8. Click OK when complete.

To install McAfee VirusScan

1. From the \OMNIBOOK\DRIVERS\WIN95\VIRUSCAN\DISK1 directory on the Recovery CD, double-click setup.exe .
2. Click Yes to accept the License Agreement.
3. Click Next at the Welcome screen.
4. Click Next to accept the Typical installation.
5. Click Next to Confirm the Installation Settings.
6. Click OK to continue.
7. Click Cancel. (You may create the Emergency Disk at any time.)
8. Click Yes you would like information on this product.
9. Read the WhatsNew.txt, click the Close button, then click Finish.

To install HP TopTOOLS

1. From the \OMNIBOOK\DRIVERS\WIN95\DMI\DISK1 directory, double-click SETUP.EXE.
2. Click Next at the Welcome Screen.
3. Read the Readme file, then click Yes to continue the installation.
4. Click Next to accept the default directory (C:\DMI).
5. Enter your information, then click Next.
6. The serial number is the default Asset number. If you company uses its own inventory system, enter the appropriate asset number, then click Next.
7. Read the SMS Support Readme file, then click Yes to install SMS support.
8. Click Finish to restart Windows 95.

Important

If you uninstall HP TopTOOLS, the Power and Sound Icons will disappear from the taskbar. From Control Panel, open Power. Select Show Battery Meter on the Taskbar then click OK. The Power and Sound Icons will reappear on the Taskbar.

Installing Cards

This section describes how to install the following:

- ◆ New Media LiveWire+ Ethernet PC Card.
- ◆ Xircom Ethernet 10/100 Modem PC Card.

To install a New Media LiveWire+ Ethernet PC Card

Requirements

- ◆ OmniBook 3000 with Windows 95 installed.
- ◆ New Media LiveWire+ Ethernet PC Card.
- ◆ New Media LiveWire+ Install Disk version 1.10 or higher.

Windows 95A

1. While Windows 95 is running, insert the PC Card.
2. The New Hardware Found window is displayed. Click OK.
3. When prompted, insert the LiveWire+ Install disk, then click OK.
4. Enter your Computer name, Workgroup and Description then click Close.
5. Insert the Windows 95 CD-ROM when prompted and change the directory to D:\WIN95 or enter the path C:\WINDOWS\OPTIONS\CABS, then click OK.
6. Remove the driver disk, then click Yes to reboot the OmniBook.

The New Media LiveWire+ Ethernet PC Card is now ready for use.

Windows 95B OEM Service Release 2

1. While Windows 95 is running, insert the PC Card.
The New Hardware Found window is displayed.
2. When prompted, insert the LiveWire+ Install disk, then click Next.
3. Click Finish.

A dialog box displays Windows 95 Can't Find The Necessary Driver.

4. Even though the disk may still be in drive A, enter A:\ when the path dialog box appears, then click OK.
5. Enter a Workgroup if applicable.
6. When prompted to restart the computer, remove the disk, then click Yes.

To install a Xircom Ethernet 10/100 + Modem PC Card

Requirements

- ◆ OmniBook 3000 with Windows 95 installed.
- ◆ Xircom Ethernet 10/100 + Modem PC Card.
- ◆ Xircom Ethernet 10/100 + Modem PC Card Installation Disk.

Windows 95A

1. While Windows 95 is running, insert the PC Card.
The New Hardware Found window is displayed.
2. When prompted, insert the Xircom installation disk, then click OK.
3. Enter the appropriate modem information, then click OK.
4. Enter a Workgroup if applicable.
5. Insert the Windows 95 CD-ROM when prompted and enter the path D:\WIN95 or enter C:\WINDOWS\OPTIONS\CABS, then click OK.
6. Remove the disk, then click Yes to restart.
7. Enter your network settings and restart.

Your Xircom Ethernet 10/100 + Modem PC Card is now ready for use.

Windows 95B OEM Service Release 2

1. While Windows 95 is running, insert the PC Card.
The New Hardware Found window is displayed.
2. When prompted, insert the Xircom Installation disk, then click Next.
3. Click Finish to install the drivers.
4. Enter a Workgroup if applicable.

Using Windows 95

Installing Cards

5. Even though the Xircom Installation disk is still in the A drive, Windows will prompt you to insert the driver disk. Click OK.
6. A dialog box may be displayed with the following:
Windows 95 Can't Find The Driver CEM56.SYS
7. Type A:\ when the path dialog box appears, then click OK.
8. Enter the appropriate modem information, then click OK.
9. Enter a Workgroup if applicable.
10. If asked for the path to the Windows 95 cab files, enter the path C:\WINDOWS\OPTIONS\CABS. Press Enter.
11. Remove the disk, then click Yes to restart.
12. After Windows 95 restarts, choose the correct COM port setting for your modem and click Exit.

Working with Windows 95

- ◆ This section describes how to customize the OmniBook for use with Windows 95 including the following:
- ◆ Automatically detecting a CD.
- ◆ Running an MS-DOS program outside Windows 95.
- ◆ Using the OmniBook 3000 Port Replicator.
- ◆ Resolving Infrared problems.

To automatically detect a CD

You can set up your system to automatically detect and respond when you insert a CD. However, this setup prevents the OmniBook from automatically turning off after a period of inactivity if the CD-ROM drive is present.

1. From Control Panel, double-click System, then click Device Manager.
2. Double-click CD-ROM drive.
3. Select the CD-ROM driver displayed, then click Properties.
4. Click Settings, then click Auto Insert Notification.
5. Click OK to save and exit.

To run an MS-DOS program outside of Windows 95

If you want to run an MS-DOS program outside of Windows 95 and still have sound and other system devices enabled, use the special MS-DOS Mode command.

1. From the Start menu, select Programs, OmniBook, MS-DOS Mode.
This shuts down Windows and loads drivers for MS-DOS.
2. Run your MS-DOS program.
3. When finished, type exit to restart Windows.

To use the OmniBook 3000 Port Replicator

The OmniBook 3000 Port Replicator has the same ports as the OmniBook 3000. Windows 95 will not create a docking hardware profile for the Port Replicator. This will significantly increase the reliability of hot docking on the OmniBook 3000.

To resolve infrared problems

If you have problems with infrared communications

- Make sure the infrared light path is not blocked.
- Check settings in BIOS Setup—from the System Devices menu, check that Infrared Port is enabled.
- For infrared communications, an infrared driver must be installed and a BIOS Setup setting must be enabled. For details, refer to the drivers' Readme files located in \OmniBook\drivers\Win95.
- Check that only one application is using the infrared port.
- If you have a Standard IR and Fast IR machine communicating with each other, make sure that they are set to the highest *common speed* (115200 baud).
- Remove any PC Cards. An IRQ conflict is possible if two PC Cards are plugged in.

If an infrared printer doesn't print

- Make sure the infrared light path is not blocked.
- An infrared driver must be installed and the BIOS Setup setting must be enabled. For details, refer to the drivers' Readme files located in \OmniBook\drivers\Win95.
- In Windows Help, use the Print Troubleshooter.

Using Windows NT 4.0

Using Windows NT 4.0

The following procedure installs a retail version of Windows NT 4.0, and configures appropriate device drivers.

Requirements

- ◆ OmniBook 3000.
- ◆ OmniBook 3000 internal CD-ROM drive.
- ◆ Blank floppy disk.
- ◆ 16 MB of RAM (32 MB recommended).
- ◆ Windows NT 4.0 Installation CD-ROM.
- ◆ OmniBook 3000 drivers Windows NT 4.0.
Location: OmniBook hard drive and on the Recovery CD in
`\OMNIBOOK\DRIVERS\NT40`.

Installing Windows NT 4.0

This section describes how to set up the operating system and drivers including:

- ◆ Installing Windows NT 4.0.
- ◆ Installing video support.
- ◆ Installing sound support.
- ◆ Installing PC Card support.

To install Windows NT 4.0

This installation assumes an internal CD-ROM and a previously completed standard HP Windows 95 installation.

1. Ensure the OmniBook 3000 is off (press and hold the blue power button for 4 seconds).
2. Insert the CD-ROM drive in the modular bay.
3. Connect the OmniBook floppy disk drive to the parallel port.
4. Press the blue Power button
5. Press the Esc key during the boot process.
6. Insert the Windows NT 4.0 Installation CD.
7. Press the System Off button on the back panel.
8. Press the blue Power button.
9. Press the Esc key during the boot process.
10. Select the CD-ROM Drive then press Enter.
11. At the Welcome Screen, press Enter to begin.
12. Press Enter to accept the IDE CD-ROM mass storage device.
13. Read the Windows NT Licensing Agreement. Press Page Down until you reach the end of the document. Press F8 to agree.
14. Press Enter to accept the default hardware and software components.
15. Select the drive to install Windows NT 4.0, then press Enter.

Using Windows NT 4.0
Installing Windows NT 4.0

16. Select the type of file system to install, then press Enter.

Note

For a detailed discussion of FAT, HPFS and NTFS file systems, please refer to the “MS Windows NT Resource Guide” within the “MS Windows NT Resource Kit”. Specifically Chapter 5 “Windows NT File Systems and Advanced Disk Management.”

13. Press Enter to accept the default Windows NT directory or type in another directory.

14. Press Enter to allow Windows NT setup to examine your hard disk drive for corruption.

15. When prompted, press Enter to reboot.

16. Click Next to allow Setup to Gather information about your computer.

17. Choose Typical from the Setup Options, then click Next. (If hard disk space is limited, choosing Portable will install only the necessary components).

18. Enter your name and organization, then click Next.

19. Enter the 10-digit CD-key, then click Next.

The CD-key is located on the back of the CD jacket.

20. Enter a computer name. This name is used by other computers on the network to access your computer, then click Next.

21. Enter an Administration password twice, then click Next. This password is used to administer User IDs and Windows NT security.

22. Choose Yes, create an emergency repair disk, then click Next.

23. Choose Install the most common components, then click Next.

24. Click Next to Install Windows NT Networking.

25. Choose Do not connect the computer to a network at this time, then click Next.

Important

We recommend that you install Windows NT networking *after* Windows NT is fully installed. Follow the instructions in the application note for the network card you are using. The application notes are available from our website. A few sample application notes are also included at the end of this chapter.

26. Click Finish to finish setting up Windows NT.

27. Enter the correct Time Zone and Date and Time, then click Close.

28. Click OK twice to accept the VGA-Compatible Display Adapter (The video driver will be installed in the next section.)

29. When prompted, insert a blank disk in the floppy disk drive, then press Enter.

30. Remove the disk from the floppy disk drive and label it

“OmniBook Windows NT 4.0 Emergency Repair Disk”

31. Press Enter to reboot.

Important

We recommend that you install Windows NT 4.0 Service Pack 3. All Windows NT 4.0 certification testing done on the OmniBook 3000 was done with Service Pack 3 installed. You can obtain Windows NT 4.0 Service Pack 3 from <http://www.microsoft.com/support/winnt/nt4sp3.asp>

To install video support

Requirements

- ◆ OmniBook 3000 with Windows NT 4.0 installed.
- ◆ OmniBook 3000 driver for video support.
Location: OmniBook hard drive or Recovery CD in
\\OMNIBOOK\DRIVERS\NT40\VIDEO.

1. From Control Panel, double-click Display, then click Settings.
2. Click Display Type, then click Change.
3. Click Have Disk in the Change Display window.
4. Enter the directory of the video drivers, then click OK.
5. Select the NeoMagic MagicGraph 128 ZV+/XD, then click OK.
6. Click Yes to confirm.
7. Click OK to accept that the driver was installed correctly.
8. Click Close in the Display Type window. (The new driver will not take effect until after Windows NT has restarted.)
9. Click Close in the Display Properties window.
10. Click Yes to restart the computer.
11. When Windows NT restarts, it will inform you that a new graphics driver has been installed.
12. Click OK.

Using Windows NT 4.0
Installing Windows NT 4.0

13. Select the following resolution, then click Test, then click OK.
1024x768 with 65,536 Colors
14. If the graphic is correctly listed, click Yes, otherwise click No and change the setting.
15. Click OK.



To install sound support

Requirements

- ◆ OmniBook 3000 with Windows NT 4.0 installed.
 - ◆ OmniBook 3000 driver for sound support.
Location: OmniBook hard drive or Recovery CD in
\\OMNIBOOK\DRIVERS\NT40\SOUND.
1. From Control Panel, double-click Multimedia, then click Devices.
 2. Select Audio Devices, then click Add.
 3. Select Unlisted or Updated Driver, then click OK.
 4. Enter the directory of the sound drivers, then click OK.
 5. Select the CrystalWare Audio Driver, then click OK.
 6. If prompted that a driver exists, choose New to install the new driver.
 7. Click OK to close the CrystalWare™ Audio Driver window.
 8. Click Restart Now.

To install PC Card support

The PC Card driver is an update from Microsoft to the standard PCMCIA.SYS driver in Windows NT 4.0. *If you are installing Windows NT 4.0 Service Pack 3.0, it is not necessary to install this driver.*

Requirements

- ◆ OmniBook 3000 with Windows NT 4.0 installed.
 - ◆ OmniBook 3000 drivers for PC Card support. Location: OmniBook hard drive and on the Recovery CD in \\OMNIBOOK\DRIVERS\NT40\PCMCIA.FIX.
1. From the Start menu, click Programs, then click Windows NT Explorer.
 2. From the View menu, click Options.
 3. Click Show all files, then click OK.
 4. Locate PCMCIA.SYS in the following directory:
C:\<current WinNT dir>\system32\driver.

Using Windows NT 4.0

Installing Windows NT 4.0

5. Rename the file to PCMCIA.OLD.
6. Copy the HP provided PCMCIA.SYS from the directory of the PC Card driver to
C:\<current WinNT dir>\system32\driver directory.
7. Shut down and restart Windows NT to activate the PC Card driver.

Installing Mobile Enhancements

The OmniBook's enhancement package adds the following capabilities to Windows NT 4.0:

- Advanced Power Management (APM).
- Plug and Play for PC Cards.
- The following applications:
 - Phoenix CardExecutive for Windows NT 4.0.
 - Phoenix APM 2.0 for Windows NT 4.0.

To learn more about Phoenix CardExecutive and APM 2.0 for Windows NT go to <http://www.phoenix.com/notebook/addinfo.html>

Important

We recommend that you install Windows NT 4.0 Service Pack 3 before installing the OmniBook 3000 Windows NT 4.0 Mobile Enhancements. You must reinstall the Mobile Enhancements, if you install Service Pack 3 after installing the Mobile Enhancements.

You can obtain Windows NT 4.0 Service Pack 3 from <http://www.microsoft.com/support/winnt/nt4sp3.asp>

Requirements

- ◆ OmniBook 3000 with Windows NT 4.0 installed.
- ◆ Windows NT 4.0 OmniBook Mobile Enhancements.
Location: OmniBook hard drive or Recovery CD in
`\OMNIBOOK\DRIVERS\NT40\APM` and `..APCMCIA`.

To install CardExecutive

If the Phoenix CardExecutive functionality is desired, it should be installed before Windows NT 4.0 networking. CardExecutive adds the following capabilities:

- Plug and Play for PC Cards using standard Windows NT drivers.
- Plug and Play for supported network PC Cards.
- Automatic configuration of PC Cards utilizing advanced “Wizard” technology to allocate system resources.
- Suspend/Resume functions and simplified administration of PC Cards when integrated with Phoenix CardExecutive.

Important

If you wish to take advantage of CardExecutive’s plug-n-play for PCMCIA network cards, you must install CardExecutive before installing Windows NT networking.

1. From the \OMNIBOOK\DRIVERS\NT40\PCMCIA directory, run SETUP.
2. Click the button to begin the installation process.
3. Click OK.
4. Click Restart Now.
5. After reboot, click Next to run the PC Card Diagnostics.
6. Click Next to start the Diagnostics.
7. Click Finish to reboot.

After reboot, you will see a PC Card icon on the Taskbar.

To install Phoenix APM 2.0

Phoenix APM 2.0 adds the following capabilities to the OmniBook:

- Improved battery life under Windows NT 4.0.
 - PC Card power management.
 - Convenient user control and monitoring of power settings and status.
1. From the \OMNIBOOK\DRIVERS\NT40\APM directory, run SETUP.

2. Click the button to begin the installation process.
3. Click OK.
4. Click Restart Now.

After reboot, you will see a Power icon on the Taskbar.

To use Phoenix APM 2.0 with a CD-ROM drive

Phoenix APM 2.0 may not automatically suspend if you have an internal CD-ROM drive installed and “Cdrom AutoRun” is enabled. To disable this feature, complete the following steps:

1. Log in as an Administrator.
2. From the Start menu, click Run
3. Type REGEDIT and click OK. This starts the Registry Editor.
4. Select HKEY_LOCAL_MACHINE\System\CurrentControlSet\Services\Cdrom.
5. Double-click on AutoRun.
6. Change the value from 1 to 0 and click OK.
7. Exit the Registry Editor.
8. Shut down and restart Windows NT 4.0.

Your OmniBook will now suspend if you have a CD-ROM drive installed.

Installing Cards

This section describes how to install the following:

- ◆ New Media LiveWire+ Ethernet PC Card.
- ◆ Xircom Ethernet 10/100 + Modem PC Card.

To install a New Media LiveWire+ Ethernet PC Card

Requirements

- ◆ OmniBook 3000 with Windows NT 4.0 installed.
- ◆ New Media LiveWire+ Ethernet PC Card.
- ◆ New Media LiveWire+ Ethernet PC Card Installation Disk
- ◆ Windows NT 4.0 CD-ROM.

Configuration

- ◆ I/O Port: 0x300.
- ◆ Memory Address: 0xD4000.
- ◆ Interrupt: 09.

These procedures assume that Windows NT Networking has not been installed.

Using the standard Windows NT 4.0 PC Card support

Follow these steps if the Phoenix CardExecutive is not installed.

1. Insert the PC Card and restart Windows NT 4.0.
2. From Control Panel, double-click Network.
3. Click Yes to begin the Windows NT Network Installation.
4. Check Wired to network, then click Next.
5. Click Select From List.
6. Click Have Disk and insert the LiveWire+ Install disk into the floppy disk drive.

7. Enter A:\, then click OK (The same drivers work for Windows NT 3.51 and 4.0).
8. Click OK to accept New Media LiveWire+ Full Duplex Ethernet PC Card.
9. Click Next to accept New Media LiveWire+ Full Duplex Ethernet PC Card.
10. Select the Protocols to install, then click Next.
11. Click Next to install the default Windows NT networking services.
12. Click Next to install the networking components.
13. Enter the directory of the Windows NT install files, then click Continue. (If you installed from CD-ROM, they are in D:\I386\.)
14. Enter the directory of the LiveWire+ Windows NT drivers (A:\), then click OK.
15. Enter the settings listed above in the Setup window, then click Continue.
16. If you installed the TCP/IP protocol you will be asked if you wish to use DHCP. Select the appropriate choice for your network.
17. If you chose not to use DHCP you will be prompted to enter your TCP/IP information.
18. Click Next to choose the default network bindings.
19. Click Next to start the network.
20. Select whether you are connecting to a workgroup or a domain and enter the appropriate name for your network.
21. Click Finish, then click Yes to restart your computer.

Using Phoenix CardExecutive

Follow these steps if Phoenix CardExecutive is installed.

1. Start Windows NT 4.0
2. Insert the PC Card.
3. When the PCMCIA Card Not Configured window appears, select Install the driver that was provided with the PC Card and click OK.
4. Insert the LiveWire+ Install disk and click OK.
5. Insert the Windows NT Installation CD in the CD-ROM drive and click OK.
6. Enter the settings listed above and click OK.
7. If you installed the TCP/IP protocol you will be asked if you wish to use DHCP. Select the appropriate choice for your network.

Using Windows NT 4.0

Installing Cards

8. If you chose not to use DHCP you will be prompted to enter your TCP/IP information.
9. This card does not support hot removal. Click OK.
10. Shutdown and restart Windows NT 4.0.

To install a Xircom Ethernet 10/100 + Modem PC Card

Requirements

- ◆ OmniBook 3000 with Windows NT 4.0 installed.
- ◆ Windows NT CD-ROM.
- ◆ Xircom Ethernet 10/100 + Modem PC Card.
- ◆ Xircom Ethernet 10/100 + Modem PC Card Installation disk.

Configuration

- ◆ I/O Port Address: 0x300.
- ◆ Memory Address: 0xD2000.
- ◆ Network Interrupt: 09.

This procedure assumes Windows NT networking has not been installed.

Using the standard Windows NT 4.0 PC Card support

Follow these steps if the Phoenix CardExecutive is not installed.

1. Insert the PC Card and restart Windows NT 4.0.
2. From Control Panel, double-click Network.
3. Click Yes to begin the Windows NT Network Installation.
4. Check Wired to the network then click Next.
5. Click Select From List.
6. Click Have Disk and insert the Xircom Installation disk into the floppy disk drive.
7. Click OK to accept A:.
8. Click OK to accept Xircom CreditCard 10/100+Modem 56 adapter.
9. Click Next to accept Xircom CreditCard 10/100+Modem 56 adapter.

10. Select the Protocols to install, then click Next.
11. Click Next to install the default Windows NT networking services.
12. Click Next to install the networking components.
13. Enter the directory of the Windows NT install files, then click Continue. (If you installed from CD-ROM they are in d:\i386\.)
14. Enter the directory of the Xircom Windows NT drivers (A:\), then click OK.
15. Enter the settings listed above in the Setup window, then click Continue.
16. If you installed the TCP/IP protocol you will be asked if you wish to use DHCP. Select the appropriate choice for your network.
17. If you chose not to use DHCP you will be prompted to enter your TCP/IP information.
18. Click Next to choose the default network bindings.
19. Click Next to start the network.
20. Select whether you are connecting to a workgroup or a domain and enter the appropriate name for your network, then click Next.
21. Click Finish, then click Yes to restart your computer.

Using Phoenix CardExecutive

Follow these steps if the Phoenix CardExecutive is installed.

1. Start Windows NT 4.0
2. Insert the PC Card.
3. Click OK to accept the PC Card configuration.
4. Follow the instructions for standard Windows NT 4.0 PC Card support above to add Network support.

Working with Windows NT 4.0

This section describes how to customize the OmniBook for use with Windows NT 4.0 including the following:

- ◆ Using Windows NT 4.0 on a notebook PC.
- ◆ Using the OmniBook 3000 Port Replicator.
- ◆ Installing TouchPad support.
- ◆ Installing Zip Drive support.

To use Windows NT 4.0 on a notebook PC

Windows NT 4.0 is not Advanced Power Management (APM) aware or Plug and Play (PnP) compatible. If you are not using the Windows NT 4.0 OmniBook Mobile Enhancements, the following will occur:

- PC Cards (PCMCIA) cannot be hot swapped into any laptop with Windows NT. Windows NT 4.0 does not support dynamic allocation of resources. PC Cards must be inserted into the unit before booting.
- PC Card sockets are not enabled after resuming. PC Cards are inoperable after a true suspend then resume cycle. Rebooting restarts the sockets.
- The operating system's clock is stopped when suspended and does not re-synchronize with the hardware clock when resuming. When users resume NT's clock starts up exactly where it was when they suspended. Rebooting resets the clock.

To use the OmniBook 3000 Port Replicator

The OmniBook 3000 Port Replicator has the same ports as the OmniBook 3000. You can dock and undock the OmniBook 3000 while Windows NT 4.0 is running there is no reason to restart the OmniBook. If you display does not activate immediately press Fn-F5. .

To install TouchPad support

The OmniBook 3000 TouchPad works perfectly with the built in Windows NT 4.0 mouse driver. If you want to take advantage of the TouchPad's enhanced features you must install the TouchPad driver. (Refer to the OmniBook 3000 Reference Guide for more information on the TouchPad.)

Requirements

Important

Windows NT 4.0 Service Pack 2 or higher must be installed before you can install the OmniBook 3000 TouchPad driver.

- ◆ OmniBook 3000 driver for TouchPad support
Location: OmniBook hard disk or Recovery CD in
\\OMNIBOOK\DRIVERS\NT40\TOUCHPAD

CAUTION

If you install the Windows NT 4.0 TouchPad driver, you may experience a 10-15 second lag if you wake up the OmniBook 3000 from Standby by touching the TouchPad. This does not occur if you wake up from Standby by pressing any other key.

1. Go to the directory of the TouchPad driver and run TOUCHPAD.EXE
2. Click Next at the Welcome screen to begin the Synaptics TouchPad Driver Installation.
3. Click Next.
4. Deselect the Run Emergency Repair Disk utility before installing and click Next.
5. Click Next to accept the default directory (C:\Program Files\Synaptics)
6. Click Next to start copying files, then click Finish to restart the computer.

To install Zip Drive support

If you wish to use the OmniBook 3000 Zip Drive module in Windows NT 4.0, you must download and install the Windows NT Zip Drive fix from the Microsoft FTP server. This is a problem with all notebook Zip Drives. Download ZIP-FIXI.EXE from <ftp://ftp.microsoft.com/bussys/winnt/winnt-public/fixes/usa/nt40/hotfixes-postsp3/zip-fix> and run it.

Features and Specifications

Features and Specifications

Your OmniBook is designed to provide trouble-free operation. The following suggestions can help you maintain its dependability:

- Observe the temperature limits and other specifications listed in the next section.
- Peruse the tips about ergonomics and work habits.
- If you have problems, see the problem-solving suggestions in chapter 5 of this manual.
- If you think your OmniBook might need repair service, see the warranty and service information in the *Support and Service* booklet.

To contact Hewlett-Packard: If you have questions that this manual and the online OmniBook manuals don't answer (even after looking in the contents and index), you can contact Hewlett-Packard at the address or phone number listed in the *Support and Service* booklet or in OmniBook Support in the online OmniBook Library. Please have your OmniBook with you.

To clean the OmniBook: You can clean the OmniBook with a soft cloth dampened either in clean water or in water containing a mild detergent. Do not use an excessively wet cloth nor allow water inside the case. Do not use any abrasive cleaners, especially on the display. *Do not apply any cleaner directly to the display.* Instead, apply the cleaner to a soft cloth and then gently wipe the display. You can clean the keyboard with a vacuum cleaner to remove accumulated dust.

Standard Features

Processor	Intel Pentium 200- or 233-processor with MMX technology.
Cache	32K L1 cache. 512K L2 pipeline burst-synchronous cache.
Architecture	32-bit PCI (Peripheral Component Interconnect) bus architecture.
Mass storage	Industry-standard 2 GB or 4 GB removable Enhanced-IDE hard drive. ATA2 Interface, Partial Response Maximum Likelihood recording method. Magneto Resistive heads. SMART Technology
Memory	16 MB RAM standard on motherboard. 2 memory slots hold any combination of 8 MB, 16 MB, 32 MB or 64 MB SO-DIMM memory. Expandable up to 144 MB. SDRAM on motherboard, 66 Mhz. EDO in expansion slots, 60 ns.
Accessory bay	Side-accessible bay accommodates one of the following: <ul style="list-style-type: none">• 20X Maximum CD-ROM drive.• 3.5 inch, 1.44 MB flexible disk drive.• Internal Zip Drive• Second rechargeable lithium-ion battery.
Flexible disk drive	Manufacturer: Teac. Removable 3.5-inch, 1.44 MB drive. Integrated in the unit or attached externally through the parallel port (cable shipped with each OmniBook 3000).

Features and Specifications

Standard Features

CD-ROM drive	Torisan CDR-U200-Z 20X Maximum CD-ROM drive. Slimline, low-power. IDE/ATAPI interface.
PC Card slots (PCMCIA)	Texas Instruments T11131 PC Card Controller Chip. 2 Type II or 1 Type III user-available, industry-compatible PC Card slots. Intel QuickSwap Bus (ExCa). <ul style="list-style-type: none">• Supports PC CardBus• Supports Zoomed Video in the bottom slot.
Built-in I/O	Serial port: 9-pin, 115,200-bps RS-232 (16550 UART). Parallel port: 25-pin bi-directional ECP and EPP (autosense Floppy Drive). SXGA-out port. Mouse port: 6-pin mini-DIN keyboard or mouse. IrDA-2 and Fast IR port (4 Mbps). Stereo-in, stereo-out, microphone-in ports. USB Connector OmniBook 3000 Port Replicator connector.
Power	AC adapter. Optional enhanced lithium-ion battery inserted in module bay doubles battery life. Batteries do not require complete discharge before recharging. There is no memory effect that reduces battery life. 2 minute low-battery warning. OmniBook will suspend if battery warning is ignored to ensure data retention. Intelligent Battery: Contains an ASIC (Application Specific Integrated Circuit) that continually tests and tracks the status of the battery. Universal ac adapter. EPA ENERGY STAR certification. Advanced Power Management 1.2. Instant-on. <ul style="list-style-type: none">• Maintains computer in ready-to-work state for 2 days on a full charge; turn it on again, and you re instantly back at work.• Increases useful battery life. Off button on back of unit. Rechargeable lithium-ion battery with 2.5- to 3.5-hour run time (recharges in less than 2.5 hours).

Keyboard and mouse	87/88-key touch-type QWERTY keyboard; industry-standard, full-size key spacing. Embedded numeric keypad. Special function [Fn] keys to toggle between internal, external, or simultaneous displays, speaker volume control and hibernation. TouchPad pointing device; Wrist rest provides comfort for extended use.
High-performance video	NeoMagic NM2160 128-bit graphics accelerator. 1.8 MB EDO DRAM for video memory. Auto detection of external display without rebooting. Includes option to simultaneously display external and integrated video displays.
Integrated Display	13.3-inch diagonal 1024 x 768 x 65,536 colors XGA TFT display.
Multimedia	Crystal CS4237 High-performance Plug and Play Audio chip. Sound Blaster Pro-compatible 16-bit stereo sound. Two integrated stereo speakers with acoustic chambers. Built-in microphone.
Security	User Level System password. Serial number stored in System CMOS memory. Kensington Lock support. Ability to disable: serial port, parallel port, hard disk drive, diskette drive boot sequence, and infrared port.
BIOS	Phoenix Plug and Play BIOS stored in flash memory User can upgrade with a floppy disk.
Software	Microsoft Windows 95 B OEM Service Release 2.1 . Support for Windows NT 4.0 & Windows for Workgroups 3.11. DMI 1.1 - compliant under Windows 95. HP TopTOOLS management application under Windows 95. Phoenix CardExecutive and APM for Plug and Play for PC Cards and Advanced Power Management under Windows NT 4.0. Setup, configuration, backup, restore, and self-test utilities.
Support	Free 3-year worldwide limited warranty. Express pickup and delivery available on approval. Optional rapid repair programs available (selected locations). Centralized worldwide BIOS and driver update service. Industry-leading technical support program.

Technical Specifications

System Unit

Dimensions	9.40 x 11.35 x 1.98
Weight	6.7 lbs
Temperature	
Operating:	41 to 95°F / 5 to 35°C
Storage:	-4 to 122°F / -20 to 50°C
Maximum Humidity	
Operating:	90% relative humidity at 35 °C (95 °F) maximum
Shock	
Operating:	70 in/sec, 2 ms, half sine
Storage:	90 in/sec, 2 ms, half sine
Vibration	
Operating:	0.159G RMS.
Storage:	1.1G RMS.
Maximum Altitude	
Operating:	10,000 ft at 25°C
Storage:	40,000 ft at 25°C
Built-in System Memory	16 MB SDRAM Suppliers: NEC, SAMSUNG
Expansion Memory (2 slots)	16 MB, 32 MB, 64 MB EDO SoDIMM modules (The use of HP memory modules is highly recommended.) Suppliers: SAMSUNG, IBM
Audio System	
Record sample rate	8 48 Ks/s
Playback sample rate	8 48 Ks/s
Maximum distortion	0.02% (measured at line/headphone out)

13.3 inch Color TFT XGA Display

Diagonal Size	13.3 in
Pixel Resolution	
Pitch	0.264 mm x 0.264 mm
Format	1024 x 768
Configuration	RGB stripe
Number of Colors	16 million at 800 x 600 64 thousand at 1024 x 768

Refresh Rate	60 Hz
Character display	80 x 25
Display Inverter Board	
Input Voltage	8 to 19V DC
Output Voltage	1500V RMS (no load)
Efficiency	75%

External Video

External Video Resolution	Supports VGA, SVGA, and XGA	
Resolution Options	Maximum colors	Refresh Rate
640x480	16M	85Hz
800x600	16M	85Hz
1024x768	64K	75Hz

Flexible Disk Drive (F1384A)

Dimensions	5.66 x 5.26 x 0.88
Weight	0.55 lbs
Diskette Size	3.5-inch
Bytes per sector	512
Sectors per track	
High density (1.44 or 1.2 MB)	18
Low density (720 K)	9
Tracks per side	
High density (1.44 or 1.2 MB)	80
Low density (720 K)	80
Read/Write heads	2
Connection	
Internal	Insert into Accessory Bay
External	Connects to Parallel Port via Cable

20x Maximum CD-ROM Drive (F1387A)

Dimensions	5.66 x 5.26 x 0.88
Weight	0.70 lbs
Applicable Disc	CD-ROM (Modes 1 and 2) CD-ROM XA Mode 2 (Form 1, Form 2) Photo CD (single/multi-session) CD Plus CD-I
Center Hole Diameter	1.5 cm
Disc Diameter	12 cm / 8 cm
Disc Thickness	1.2 mm
Track Pitch	1.6 um
Access Time	150 ms (typical), 1/3 stroke

Features and Specifications
 Technical Specifications

Audio Output Level	
Line Out	0.8V RMS.
Cache Buffer	128 K
Maximum Data Transfer Rate	3000 KB/s
Start Time	< 10 seconds
Stop Time	< 4 seconds
Lithium-Ion Battery (F1382A or F1383A)	
Weight	0.90 lbs
Energy	
Voltage	12V to 15.4V DC
Capacity	2.7 Ah
Battery Life	2.0 to 3.5 hours (depending on usage)
Charge Time	2 hours
Temperature	
Charging	0° to 45°C
Discharging and Storage	0° to 60°C
AC Adapter (F1377A)	
Input Voltage	100-240V AC
Output Current	2.4A DC
Output voltage	19V DC
Maximum Power Output	45.6 W
Automobile Adapter (F1379A)	
Input Voltage	9-16V DC
Output Current	2.4A DC
Output Voltage	19V DC
Maximum Power Output	45.6 W
OmniBook Port Replicator (F1381)	
Dimensions	
Without Monitor Stand	12.15 x 14.25 x 2.80
With Monitor Stand	14.26 x 18.50 x 6.88
Weight	
Without Monitor Stand	3.58 lbs
With Monitor Stand	10.01 lbs
Temperature	
Operating:	41 to 95°F / 5 to 35°C
Storage:	-4 to 122°F / -20 to 50°C
Maximum Humidity	
Operating:	90% relative humidity at 35 °C (95 °F) maximum
Shock	

Features and Specifications
Technical Specifications

Operating:	70 in/sec, 2ms, half sine
Storage:	90 in/sec, 2ms, half sine
Vibration	
Operating	0.159G RMS.
Storage:	1.1G RMS.
Maximum Altitude	
Operating	10,000 ft at 25°C
Storage:	40,000 ft at 25°C

Hard Disk Drives

Capacity Per Drive	2.1 GB	4.08 GB
HP Part Number	F1385A	F1386A
Drive Height	12.7 mm	12.7mm
Transfer Rate		
Media		
Inner	39.1 Mb/s 51.7 Mb/s	
Outer	61.6 Mb/s 83.4 Mb/s	
Interface		
	16.6 MB/s 16.6 MB/s	
Seek Times		
Track-to-Track	4 ms	4 ms
Average	13 ms	13 ms
Maximum	23 ms	23 ms
Average Latency	7.5 ms	7.5 ms
Start Times		
Typical	2.8 sec	2.8 sec
Maximum	9.5 sec	9.5 sec
Disk Rotational Speed (rpm)	4,000	4,000
Logical Configuration		
Cylinders	4200	7944
Heads	16	16
Sectors per track	63	63
Bytes per sector	512	512
Number of Disk Platters	3	3
Number of Heads	6	6
Buffer Size (read and write segmented)	96 KB	512 KB
Reliability		
Maximum number of controlled Load / Unload Cycles	NA	300,000
Probability of an unrecoverable error	1 in 10 ¹³ bits	1 in 10 ¹³ bits

Getting Assistance and Support

This section includes information about:

- ◆ Looking up technical information.
- ◆ Getting HP OmniBook assistance— from electronic services and from Customer Support centers.
- ◆ Getting repair assistance.
- ◆ Hewlett-Packard limited warranty.

To look up technical information

This Corporate Evaluator's Guide provides technical specifications and other information to assist in completing evaluations. For more OmniBook information, refer to the following OmniBook documentation.

Document	Location	Content
Quick Start Sheet	In Box, WWW	OmniBook Setup, Support Information
<i>Reference Guide</i>	In Box, WWW	OmniBook Setup, Usage, Configuration, Troubleshooting
online <i>User's Handbook</i>	Online, WWW	OmniBook Basics
OmniBook Notes	Online, WWW	Last minute information not in the <i>User's Handbook</i> or <i>Reference Guide</i>
<i>OmniBook Support and Service</i>	In Box, Online, WWW	Technical Support and Repair Information
Port Replicator Quick Start Sheet	Port Replicator Box, WWW	Setup, Support Information
Port Replicator <i>User's Handbook</i>	Port Replicator Box, WWW	Port Replicator Setup, Usage, Troubleshooting
3rd-party Hardware Application Notes	Electronic Support Services	3rd Party Hardware Setup in each Operating System
General Application Notes	Electronic Support Services	Operating System Install, Power management, Docking, Troubleshooting
3rd Party Whole Product Tested List	Electronic Support Services	3rd Party Hardware Pass/Fail List
Frequently Asked Questions	Electronic Support Services	Troubleshooting
<i>Corporate Evaluator's Guide</i>	Electronic Support Services	Installation of OSs

Quick Start Sheet

- Location: In box (printed document).
- Audience: End user.
- Content: Setting up the OmniBook, using power management options, selecting a factory-installed operating system, getting support (telephone and electronic).

Reference Guide

- Location: In Box (printed document) and HP's website.
- Audience: End User, Corporate IT.
- Content: Setting up the OmniBook, selecting a factory-installed operating system, using accessories, installing memory or hard disks, connecting devices, changing the configuration (SCU and OmniBook Tools), recovery, system resources (including memory maps, interrupt settings, I/O addresses), and troubleshooting.

User's Handbook

- Location: Online and HP's website.
- Audience: End User.
- Content: Basics of operating the OmniBook. The *OmniBook User's Handbook* is on your OmniBook in C:\OMNILIB\HPBOOK.EXE. The *OmniBook User's Handbook* is also located on the OmniBook Recovery CD in the D:\OMNIBOOK\MANUALS\WIN95 and ..\WFW directories. This manual can be copied to any PC.

Features and Specifications
Getting Assistance and Support

OmniBook Notes

Location: Online.

Audience: End User, Corporate IT.

Content: This document details the late-breaking information that we could include in the OmniBook documentation.

- The OmniBook Notes file is C:\OMNIBOOK\OMNIBOOK.DOC.

OmniBook Support and Service Guide

Location: In Box (Paper) and online.

Audience: End User, Corporate IT.

Content: This document details OmniBook electronic and telephone support and service information.

- Support and Service is located in your OmniBook box.
- The OmniBook support file is C:\OMNIBOOK\SUPPORT.TXT.

Port Replicator Quick Start Sheet

Location: Port Replicator Box (Paper).

Audience: End User, Corporate IT.

Content: Setting up the Port Replicator, support information.

Port Replicator User's Guide

Location: Port Replicator Box (printed document) and HP's website.
Audience: End User, Corporate IT.
Content: Setting up the Port Replicator, using and connecting devices to the Port Replicator, troubleshooting, support information.

Application Notes

Location: Electronic Support Services and HP's website.
Audience: All.
Content: Installing an operating system, updating the BIOS, troubleshooting.

3rd Party Hardware Application Notes

Location: Electronic Support Services and HP's website.
Audience: Corporate IT and Resellers/Integrators.
Content: Applications notes contain information on the supported and tested ISA, PCI and PC Cards in each operating system. Each card has an application note that describes how to configure it in HP OmniBooks.

3rd Party Whole Product Tested List

Location: Electronic Support Services and HP's website.
Audience: Corporate IT and Resellers/Integrators.
Content: Shows each 3rd-party product and whether or not it passed or failed in each operating system on each OmniBook.

Features and Specifications
Getting Assistance and Support

Frequently Asked Questions

Location: Electronic Support Services and HP's website.
Audience: End User, Corporate IT, Reseller/Integrator.
Content: Troubleshooting, information includes docking, power management, and batteries.

Corporate Evaluator's Guide

Location: Electronic Support Services and HP's website.
Audience: Corporate IT, Resellers/Integrators.
Content: OmniBook system resources (including memory maps, interrupt settings, I/O addresses), instructions for using the recovery CD-ROM to rebuild the OmniBook 3000, retrieve key operating-system drivers, and access the electronic manuals, troubleshooting, installing the major operating systems including Windows for Workgroups 3.11, Windows 95, and Windows NT 4.0.

To get HP OmniBook assistance

If you need assistance with your HP OmniBook or HP OmniBook accessory, use any of the following support services:

Provider Type	Type of Assistance
HP Electronic Support Services	Product literature, news, support documentation, applications notes, FAQ's, software and Approved and Tested Solutions
HP-approved support providers	Local HP-approved support assistance Warranty qualification and warranty repair service Out-of-warranty repair service or referral to an HP Service Center
HP Customer Support Centers	Telephone support assistance--free during warranty period In and out of warranty repair qualification and repair process
HP-authorized resellers	Local support assistance Referral to Customer support center or HP-approved support provider

Electronic support services

See the next topic below for a listing of services.

Customer Support Centers

See the second topic below for a listing of contacts.

To find Electronic Support Services

World Wide Web

HP OmniBook website: <http://www.hp.com/omnibook>

HP Audio Tips

800-333-1917 (North America)

HP Bulletin Board Services (BBS)

North America	(208)344-1691
Austria/Germany	(1)865.8799
Belgium/Dutch and French	(2)778.3819
Belgium/French	(2)778.3819
Denmark/Danish	(45)991905
Finland/Finnish	(9600)7280
France/French	3616 HP MICRO (Service Minitel)
Germany	*HP# Datex J-BTX system
Italy	(2)753.32.27
Netherlands	0495546909
Norway	(2)273.5697
Sweden	(8)750.6262
Switzerland/French	(64)560200
Switzerland/German	(64)560200
United-Kingdom	(1344)360880
WorldWide (US)	(208)344-1694

Features and Specifications
Getting Assistance and Support

CompuServe (“GO HP”)

America Online (HP Forum)

America Online/Bertlesmann (HP Forum) (Europe)

Optional Support Assistant CD-ROM
(for information: <http://www.hp.com/cposupport/hpsa.html>)

HP First Post-Sales Fax Retrieval System:

Austria/German	0660.8128
Belgium/Dutch	0800.11906
Belgium/French	0800.17043
Denmark/Danish	0800.10453
Finland/Finnish	9800.13134
France/French	0800.05.905900
Germany/German	0130.810061
Italy/Italian	1678.59020
Netherlands/Dutch	0800.0222.420
Norway/Norwegian	800.11319
Portugal	05053.13342
Spain/Spanish	900.993123
Sweden/Swedish	020.795743
Switzerland/French	0800.155.1526
Switzerland/German	0800.155.1527
United Kingdom/English	0800.960271
European number/English (toll)	31206815792
Worldwide number (in the U.S.)	(208) 344-4809
North America/English	(800) 333-1917

To contact Customer Support

The HP Customer Support Centers will assist you free of charge during the term of the product warranty. (You are responsible for the telephone charges.) During the warranty period, HP can help you with the following:

HP can answer questions about:	HP cannot answer questions about:
Applications and operating systems included with the OmniBook 3000. HP-described operation environments and conditions. HP accessories and HP upgrades. Basic operation and troubleshooting for repair qualification.	Non-HP hardware, software, operating systems or usage not intended for or included (by HP) with the product. How to repair the product yourself. Product development, custom installations, consulting (contact HP about consulting arrangements).

Free Express Pick up and Delivery (selected locations).

US/Canada (English) (970) 635-1000
Canada (French) Montreal (970) 635-1000 English
 (800) 387-3867 French

Asia Pacific

Taiwan	886.2.717.9609*
Singapore	65.290.6373*
Korea	82.2.3270.0700*
Australia	13.13.47*
New Zealand	0800.651.651*
China	86.10.505.3888*
Japan	81.3.3335.8338*
Hong Kong	96 7729
India	91 11 682 6035
Indonesia	6221 350 3408
Malaysia	03 295 2566
Philippines	65 272 5300
Thailand	661 4011

Europe

Austria (German):	0660.6386
Belgium (Dutch):	02.626.8806

Features and Specifications
Getting Assistance and Support

Belgium (French):	02.626.8807
Czech Republic:	02 471 7321
Denmark (Danish/Swedish):	3929.4099
Finland (Swedish/English):	0203.47.288
France (French):	01.43.62.34.34
Germany (German):	0180.52.58.143
Greece:	301 689 6411
Hungary:	01 252 4505
Netherlands (Dutch):	020.606.8751
Ireland (English):	01.662.5525
Italy (Italian):	02.2.641.0350
Norway (Norwegian/Swedish):	22.11.6299
Poland:	4822 37 50 65
Portugal (Spanish/English):	01.441.7199
Russia:	7095 923 5001
Spain (Spanish):	902.321.123
Sweden (Swedish):	08.619.2170
Switzerland (German/French):	0848.80.11.11
Turkey:	90 1224 59 25
UK (English):	0171.512.52.02
English (non-UK):	44 171 512 52 02

Africa/Middle East: 41 22 780 71 11

Latin America

If not available, contact an HP authorized support provider or HP Service Center.

Argentina:	541781-4061 69
Brazil:	11 709-1444
Mexico:	800-221-4700, 800-905-2900
Venezuela:	58 2 239 5664

To get repair assistance

Under Warranty : Contact one of the support providers or an HP Service Center to receive warranty service. The support provider will help qualify your unit for warranty repair based on the warranty applicable to your unit and original purchase date, and will provide you with repair processes in your area. Warranty service does not include cost of shipping, handling, duties, taxes, freight or fees to the service location.

Out of Warranty : Contact one of the support providers or an HP Service Center. The support provider will provide you with repair charges and processes in your area, or will refer you to a repair center.

See the next topic for a summary of the warranty terms.

Hewlett-Packard Limited Warranty Summary

The following table summarizes Hewlett-Packard's limited warranty. The *OmniBook Support and Service* booklet contains complete warranty information.

Product	Duration of Limited Warranty
HP OmniBook Computers (not listed below)	3 years
HP OmniBook Computers (VL Models)	1 year
HP OmniBook Computers (AS/AR Models)	Refer to Warranty with unit
HP OmniBook Accessories, Batteries	1 year
HP Software	90 days
Microsoft Software	90 days

Using Electronic Serial Numbers

Beginning with the OmniBook 3000 and OmniBook 800 notebooks, Hewlett-Packard ships OmniBooks with an electronic serial number. This will be continued on all future products.

An electronic serial number can help IT managers track assets and software configurations. The serial number can also be used for tracking lost or stolen notebooks.

The Desktop Management Interface (DMI) TopTOOLS application shipped with our new products can be used to read the serial number locally or remotely across a network. This serial number offers OmniBooks key competitive advantages.

To ensure serial number security

To support electronic serial numbers, HP will check for the serial number at configuration of the Motherboard, in manufacturing, and through support services.

Manufacturing

All OmniBooks will have electronic serial numbers set in manufacturing.

Service

If an OmniBook motherboard is replaced, the HP authorized repair facility must program the electronic serial number before returning the unit to the customer.

OmniBook motherboard Configuration

If for some reason the electronic serial number is not set, the OmniBook will prompt with the following message and wait for a key press when powered on for the first time:

```
Invalid Electronic Serial Number  
Press any key to continue
```

After a key press, the OmniBook continues the normal boot process.

Features and Specifications
Using Electronic Serial Numbers

Hewlett-Packard has also provided a utility called ESN.EXE in the C:\OMNIBOOK directory to set the serial number. This program must be run in MS-DOS. This Utility does the following:

1. Checks to make sure no electronic serial number is set.
2. Prompts to confirm that you want to set the serial number.
3. Prompts for the serial number and gives the location (bottom of unit).
4. Confirms the Serial Number is valid. If it is it asks you to verify the serial number. If it is not correct it prompts for the serial number again.
5. It burns the electronic serial number into flash memory and prompts you to restart the OmniBook.

To correct an incorrect serial number

If for some reason the customer receives an OmniBook with an incorrect electronic serial number, the customer can run the ESN and it will do the following:

1. Ask the user to verify the serial number is correct.
2. If the user answers no, it will give the user a pass number. The user must call HP customer support and give the pass number.
3. The HP customer support representative will give the user a password that will remove the current serial number.
4. Restart the system and follow the instructions above to set a new serial number.

About BIOS Updates

You can safely update the OmniBook BIOS without impact to the serial number. BIOS updates do not erase the electronic serial number located in the motherboard.

Index

- A**
 - accessories
 - warranty, 5-20
 - Application Notes, 5-13
 - audio device
 - drivers, 1-15
 - autodetecting CDs, 3-17
- B**
 - BIOS
 - resources, 1-21
 - serial number, 5-22
 - updating, 1-17
- C**
 - cable
 - floppy (F1380A), 1-4
 - security lock, 1-20
 - CD-ROM drive
 - autodetecting a CD, 3-17
 - with Phoenix APM 2.0, 4-11
 - channels (DMA), 1-22
 - cleaning the OmniBook, 5-2
 - configuring
 - audio devices, 1-21
 - system resources, 1-21
 - Customer Support, 5-17
- D**
 - default values, 1-21
 - device
 - drivers, 1-15
 - DMA channels, 1-22
- D**
 - DMI
 - Windows 95 support, 3-13
 - documentation
 - Application Notes, 5-13
 - Corporate Evaluator's Guide, 5-14
 - OmniBook Notes, 5-12
 - online User's Handbook, 5-10
 - Quick Start sheet, 1-4, 5-10, 5-11
 - Reference Guide, 1-4, 5-10, 5-11
 - Support and Service Guide, 5-12
 - tested solutions, 5-14
 - User's Handbook, 5-11
 - DriveSpace, 2-15
- E**
 - electronic serial number, 5-21, 5-22
 - electronic support services, 5-15
 - EMM386, 2-14
- F**
 - FAT32, 1-15
 - floppy disk drive
 - cable (F1380A), 1-4
 - specifications, 1-5
 - status panel icon, 1-12
 - Fn key
 - + F10 (Scroll Lock), 1-12
 - + F5 (volume), 4-16
 - + F6 (battery status), 1-11
 - + F8 (keypad lock), 1-12
 - + F9 (Num Lock), 1-12
- H**
 - hard drive

- formatting with Windows for Workgroups, 2-3
- replacing, 1-16
- hardware application notes, 5-13
- hibernate
 - mode, 1-8
- HP applications, 3-12

I

- I/O addresses, 1-22
- infrared
 - light path, 3-18
 - printing, 3-18
 - removing support, 3-10
 - troubleshooting, 3-18
 - Windows 95 support, 3-10
- installing
 - HP software, 1-15
 - MS-DOS, 2-4
 - New Media LiveWire+ Ethernet PC Card, 4-12
 - operating systems, 1-15
 - Phoenix APM 2.0, 4-10
 - Phoenix CardExecutive, 4-10
 - Windows 95, 3-2
 - Windows for Workgroups, 1-15, 2-2, 2-4
 - Windows NT 4.0, 4-2
 - Xircom Ethernet 10/100, 4-14
- instant-on, 1-8
- interrupts (system), 1-21
- IR. See infrared

K

- Kensington lock, 1-20

L

- license agreement, iii
- lights
 - battery charge remaining, 1-13
 - battery status, 1-13
 - infrared, 3-18

M

- manuals
 - online User's Handbook, 5-11
 - sources, 5-10
 - types, 5-10
- memory, 1-21
 - Windows for Workgroups, 2-14
- MicroSaver lock, 1-20
- mobile enhancements (Windows NT 4.0), 4-9
- modem cardsXircom, 3-15
- MS-DOS
 - installing with Windows for Workgroups, 2-4
 - outside Windows 95, 3-17

N

- network cards
 - Xircom, 2-10, 3-14, 3-15, 4-12, 4-14
- New Media LiveWire+ Ethernet PC Card
 - installing, 4-12
- Notes
 - Application, 5-13
 - OmniBook, 5-12

O

- Off mode, 1-8
- OmniBook
 - accessories, 1-5
 - cleaning, 5-2
 - documentation, 5-10
 - repair, 5-19
 - resetting, 1-9
 - serial number, 5-21, 5-22
 - status, 1-11
 - tested solutions, 5-14
 - warranty, 5-20
 - website, 2-4, 2-7, 2-8, 2-9, 5-15
- OmniBook Notes, 5-10, 5-12

P

- password

- deleting, 1-19
- setting, 1-18
- PC Card
 - plug and play, 4-9
 - Windows 95 support, 3-8
 - Windows NT 4.0 support, 4-7
 - Windows NT support, 4-14
 - with Windows NT 4.0, 4-16
 - Xircom network card, 2-10, 3-14, 4-12
- Phoenix APM 2.0, 4-9
 - installing, 4-10
 - with CD-ROM drive, 4-11
- Phoenix CardExecutive
 - installing, 4-10
 - using, 4-13, 4-15
- plug and play
 - PC Cards, 4-9
- plug-and-play
 - no Windows NT 4.0 support, 4-16
- port replicator
 - part number, 1-5
 - security, 1-20
- power button
 - suspending OmniBook, 1-7
- power management
 - modes, 1-7, 1-8
 - no Windows NT 4.0 support, 4-16
 - overview, 1-6
- Power Profiler, 4-10, 4-11
- printing
 - infrared, 3-18
- programming service
 - Recovery CD, 1-16
- protection
 - password, 1-18
 - security cable, 1-20

R

- recovering Windows, 1-15
- Recovery CD
 - contents, 1-15

- programming service, 1-16
- replacing, 1-16
- Reference Guide, 5-10
- reinstalling
 - HP applications, 3-12
- repair, 5-19
- resetting OmniBook, 1-9

S

- security
 - hard disk drive, 1-20
 - RAM, 1-20
 - serial number, 5-21
- security cable, 1-20
- serial number
 - correcting, 5-22
 - stored electronically, 5-21
- service
 - booklet, 1-4
 - repair, 5-2, 5-19
 - support, 5-14, 5-17
- setting passwords, 1-18
- software
 - license, iii
 - resources, 1-21
- sound
 - volume adjustment, 2-15, 3-18, 4-16, 4-17
 - Windows 95A support, 3-7
 - Windows NT 4.0 support, 4-7
- specifications
 - software system, 1-21
- Standby
 - automatic after 2 min., 1-7
 - mode, 1-8
- status (OmniBook), 1-11
- support
 - assistance, 5-2, 5-14, 5-17
 - repair, 5-19
 - service, 5-5
- Support and Service Guide, 5-12
- Support Utility disk, 1-15

Suspend
by closing lid, 1-7
mode, 1-8
with power button, 1-7
system resources
DMA channels, 1-22
I/O addresses, 1-22
memory, 1-21
system interrupts, 1-21

T

time-out
power savings, 1-8
TopTOOLS, 5-5
troubleshooting
infrared, 3-18
turning off OmniBook
methods, 1-7
reset, 1-9
time-outs, 1-8

U

updating the BIOS, 1-17
User's Handbook (online)
in OmniBook Library group, 5-10

V

video
Windows 95 support, 3-6
Windows NT 4.0 support, 4-5
volume
Windows NT 4.0, 2-15, 3-18, 4-16, 4-17

W

warranty, 1-3, 5-5, 5-20
website, 2-4, 2-7, 2-8, 2-9, 5-15

Windows 95
Companion CD, 1-4
DMI support, 3-13
infrared support, 3-10
installing, 3-2
MS-DOS outside, 3-17
PC card support, 3-8
sound support (95A), 3-7
video support, 3-6

Windows for Workgroups
increasing performance, 2-15
installing, 2-2, 2-4
memory, 2-14

Windows NT 4.0
Card Executive, 4-10
installing, 4-2
mobile enhancements, 4-9
no PnP support, 4-16
no power management, 4-16
PC card support, 4-7
Power Profiler enhancement, 4-10
sound support, 4-7
video support, 4-5
volume control, 2-15, 3-18, 4-16, 4-17
without mobile enhancements, 4-16
WWW, 2-4, 2-7, 2-8, 2-9, 5-15

X

Xircom Ethernet 10/100
installing, 4-14
Xircom network card
Windows 95, 3-14
Windows for Workgroups, 2-10
Windows NT 4.0, 4-12