



# **DockMate™ Multimedia User's Guide**

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DockMate™ Multimedia User's Guide  
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- Increase the separation between the equipment and the receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected
- Consult the Dealer or an experienced radio/television technician for help.

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**Caution: Changes or modifications not expressly approved by Texas Instruments could void the user's authority, which is granted by the Federal Communications Commission, to operate this equipment.**

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## Introduction

This document discusses the Texas Instruments DockMate™ Multimedia system. This DockMate system, when used with a TravelMate™ 5000 Series computer, creates a fully-portable, multimedia system. When used with the notebook computer, external keyboard, mouse, and VGA monitor (not supplied with the system), the DockMate Multimedia system turns your notebook into an ergonomic desktop workstation.

This manual tells you how to install, operate, and maintain your DockMate Multimedia system.



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**Note:** Also review the *Quick Start* document that came with your TravelMate notebook (TI Part No. 9786164-0001) prior to using your system for the first time.

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This manual contains five chapters and three appendixes including:

- ❑ **Chapter 1: Introduction** — Introduces the main features of your new DockMate Multimedia system.
- ❑ **Chapter 2: DockMate Multimedia Installation** — Describes how to unpack your DockMate Multimedia and provides information on software installation, docking, undocking, and securing your system. Ports and connectors are also discussed.
- ❑ **Chapter 3: Using Options** — Describes how to use various features and options designed for your DockMate Multimedia system.
- ❑ **Chapter 4: Utilities** — Customizes your desktop for use with a docking system.

# Preface

- ❑ **Chapter 5: Troubleshooting Procedures** — Provides operator-level troubleshooting procedures for solving problems that you may encounter when configuring and using the system.
- ❑ **Appendix A: Reference Material** — Provides a list of related documentation.
- ❑ **Appendix B: DockMate Multimedia Specifications** — Provides a list of system specifications for your DockMate Multimedia system.
- ❑ **Appendix C: Disk Compression** — Provides information on how to update utilities for systems using disk compression.

## Ordering Parts and Supplies

To order TI publications, option kits, spare parts, or supplies for your system, contact 1-800-TI-TEXAS or the Texas Instruments service center for your country.

Your DockMate Multimedia system provides hardware and software expansion capabilities to TravelMate™ 5000 Series notebook computers. Using the DockMate Multimedia system effectively turns your notebook into a powerful multimedia workstation.

## In this Chapter...

- An overview of standard DockMate Multimedia system features
- An overview of options for the DockMate Multimedia system

The DockMate Multimedia system ports are configured using the SetDock or TI Setup Utilities discussed in Chapter 4 of this document.

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# Standard Features

The following is a list of standard features for the DockMate Multimedia system:

Feature	Description
Removable CD-ROM Drive	Reads 8 cm or 12 cm single-sided discs.
Interfaces	
25-Pin Parallel Port	Connects to a parallel printer or other device that uses a standard parallel interface. EPP/ECP compatible.
9-Pin Serial Port	Connects to external serial devices.
VGA™	Connects to an external VGA or SVGA monitor.
MIDI/Game Port	Provides an interface for a musical or game device.
Small Form Factor PCI Slot (S-PCI)	Provides expansion capabilities with optional devices.
PCI Card Slot	Provides expansion capabilities for optional third party PCI cards.
Mouse Port	Supports PS/2® mouse connection.
Keyboard Port	Supports external PS/2 keyboard or mouse connection.
SIR (Serial Infrared)	Allows for cable-free connection to IRDA™-compliant devices.
SCSI II	Connects to up to eight SCSI devices (refer to the <i>SCSI Adapter</i> section of Chapter 3 for details on configuration).
Battery Slots (2)	Two battery slots for batteries identical to those used in the TM5000. Plastic filler cases are inserted.
AC Adapter	Provides power to docked system.
Security Locking	Physically locks the docked system.

# Standard Features

Feature	Description
Sound	
Audio In	Allows you to input audio from an external device.
Audio Out	Allows you to export audio to an external device.
DC In	Allows you to connect DC power to the docked system using the supplied AC adapter or optional accessories.
Stereo Amplifier	Amplifies the line output of the TM5000 and drives two built-in speakers at up to two watts per channel.
Volume	Adjusts the level of audio output.
Balance	Distributes sound to left and right speakers.
Mix	Combines and adjusts audio signals.
Treble	Adjusts high-frequency audio.
Bass	Adjusts low-frequency audio.
Headphone Jack	The headphone jack on the CD-ROM allows you to listen to audio from the CD-ROM. Using the headphone jack on the left rear of the system allows you to listen to mixed sound from both the CD-ROM and the TM5000.
Microphone Jack	Provides audio input to the system.
Speakers	Two retractable speakers are provided on the DockMate Multimedia system.

# Optional Features

The following options are available for the DockMate Multimedia system:

Option	Description
TM5000 Battery Packs	lithium-ion
Removable 2.5 inch, 19 mm Hard Drive	810 MB 1.2 GB
SFF Ethernet®	Small Form Factor Ethernet Option (10BaseT)

# DockMate Multimedia Installation

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## In this Chapter...

- Procedures on how to unpack and inventory the system components
- DockMate Multimedia software installation
- Procedures on how to dock and undock the notebook
- Procedures on how to secure the system
- A description of features and connections

## Contents

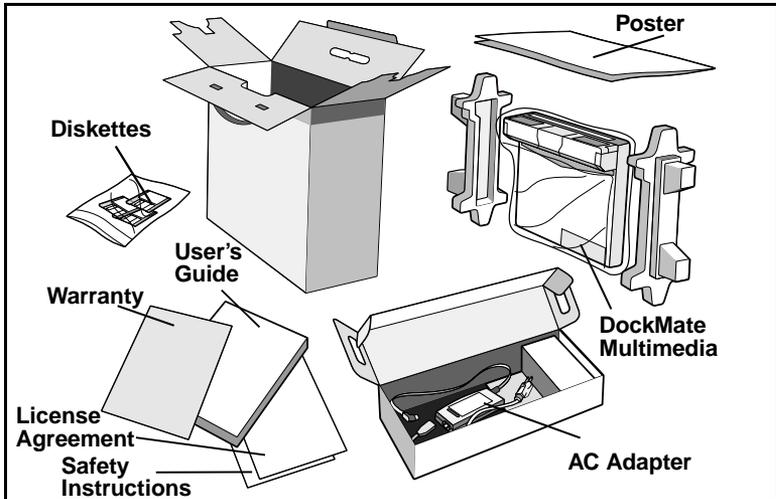
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# Unpacking Instructions

The DockMate Multimedia system is shipped with the following hardware components:

- DockMate Multimedia system
- DockMate System Installation Diskette*
- SCSI Drivers Diskettes
  - Adaptec® EZ-SCSI Lite v4.0 for Windows®*  
For Windows 3.x  
For Windows 95 or NT
  - Adaptec 7800 Family Manager Set*  
For NetWare® 3.1x  
For OS/2® 2.1x, Warp  
For Windows NT 3.1 (and 3.5)  
For Windows 95
- AC power adapter with power cord
- Documentation
  - DockMate Multimedia User's Guide* (this manual)
  - Safety Instructions
  - Warranty
  - License Agreement

# Unpacking Instructions



Package contents

Unpack the DockMate Multimedia system using the following instructions:

1. Carefully cut the tape that seals the top flap of the shipping carton.
2. Remove the DockMate Multimedia system and all accessories from the shipping carton.
3. Remove all protective coverings from the DockMate Multimedia system and accessories, and inventory the contents. Save shipping container and packaging if shipping is required in the future.

# Turning on Your Computer

To turn on the TM5000 computer, complete the following steps:

- 1.** Ensure that you have at least one charged battery installed in the computer or that the AC adapter is connected to your unit. Refer to your *TravelMate 5000 Series User's Guide* for more detailed information on connecting power to your computer. If you are docked, use only the AC adapter provided with your DockMate Multimedia (refer to the *AC Adapter* section of this chapter). Plug it into the DockMate Multimedia instead of the notebook. Using the wrong AC adapter could cause the unit to shutdown during operation.
- 2.** Turn on the Power switch to your computer.

# DockMate Software Installation

## Updating Firmware

For your TM5000 Series computer to work correctly with the DockMate Multimedia, you must upgrade the BIOS (Basic Input/Output System) with new firmware (FLASH ROM).

## Disk Compression

If you are using disk compression on your C: drive, new utilities will not install correctly. To correct this, refer to Appendix C, *Disk Compression*.

## Upgrading BIOS

To upgrade the BIOS, complete the following steps:

1. Turn off power to your notebook computer.
2. Ensure the system is undocked.
3. Place the *DockMate System Installation* diskette into drive A.
4. Turn on power to your notebook computer.
5. Follow instructions on the screen.

---

**Note:** If your system BIOS is more current than the BIOS on the diskette, your system BIOS is not updated and you are taken to the MS-DOS® prompt. If this is the case, remove the diskette and reboot.

---

*When finished, your system shuts down. You must slide the power switch off then on to turn power back on to the computer. You are going to stop the system before the boot process is complete. Refer to Steps 6 through 9.*

*Follow instructions on the screen. Select the operating environment when prompted. The installation process completes.*



# DockMate Software Installation

6. During the reboot process, you will hear a beep. Immediately press **Ctrl-Alt-Esc**.



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**Note:** The TI TravelMate 5000 Setup program appears on your screen.

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7. If you have previously changed the configuration of TI Setup for special hardware requirements, note the settings before continuing to the next step. Reload them later as required by your hardware.
8. Press **Esc-F5** to load factory defaults.
9. Press **Esc-F4** to save the configuration.

## Important Information on Software

- When the notebook is docked to a DockMate Multimedia, plug the AC adapter supplied with your DockMate Multimedia into the DockMate Multimedia. All power on or off is controlled by the notebook's power switch.
- Some TM5000 Series notebooks may experience PCMCIA recognition problems when docked to a DockMate Multimedia. Troubleshooting procedures are located in Chapter 5, *Troubleshooting Procedures*.



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**Caution:** If you decide to downgrade your operating system from Windows 95 to Windows or Windows for Workgroups, you must undock your computer before performing the downgrade.

---

# DockMate Software Installation

## Installing SCSI Drivers

After docking your DockMate (refer to *Docking the Notebook*), you should install your SCSI drivers. The following instructions show you how to install software to configure SCSI devices for your system.

## Updating Windows NT Driver

Follow these instructions to update the Windows NT driver:

1. Select and start Windows NT Setup program (usually found in the Main program group).

*There is a brief pause while Windows NT Setup scans your hardware configuration.*

2. Select the Options pulldown menu and then select **Add/Remove SCSI Adapters**.

*The SCSI Adapter setup program displays a list of all host adapters currently installed.*

3. Select the **Add** button.

*A list of additional SCSI adapters appears.*



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**Note:** If you receive a warning message, press **Ok**.

---

4. Select **Other** and press **Enter**.
5. Insert the *Adaptec 7800 Family Manager Set* diskette for Windows NT into drive A.
6. Enter the path to the installation files:

**a:\winnt\3\_1**

*The screen displays the adapter drivers supported on the diskette.*

# DockMate Software Installation

7. Select **Adaptec AHA-2940/AIC-78xx (PCI) NT v3.1** and then select **Ok**.

*The driver is added to the list of SCSI adapters.*

8. Select **Adaptec AHA-2940/AIC-78xx (PCI) NT v3.1** from the list of SCSI adapters and select **Install**.

*Windows NT Setup checks to see if the specified driver has already been copied to disk.*



---

**Note:** If you get the message that the SCSI adapter selected is already installed, select **New** and go to Step 10. If you get the message to enter the full path to the Windows NT SCSI Adapter files, go to Step 9.

---

9. Change the path to the directory (a:\winnt\3\_1) with the desired device driver then select **Continue**.

*The device driver is copied to your system disk and the Windows NT configuration is updated so that the new device driver loads when Windows NT reboots.*

*When the installation is complete, Windows NT Setup displays a list of currently installed host adapter types.*

10. Verify that the new host adapter appears on the list. The string should look similar to Adaptec AHA-2940/AIC 78xx (PCI) NT v3.1.
11. Add other types of host adapters if necessary or select **Close** to exit the SCSI adapters portion of Windows NT Setup.
12. Close the program.  
*You are told your changes will not take effect until the computer is restarted.*
13. Select **Ok** to exit.

# DockMate Software Installation

14. Restart your computer and Windows NT.



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**Note:** Refer to the README.TXT file for further information on installing SCSI drivers.

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## Updating Windows 95 Drivers

Follow these instructions to update the Windows 95 driver:

1. Install Windows 95 and start your computer.
2. Select the **Start** button.
3. Select **Settings**.
4. Select **Control Panel**.
5. Select the **System** icon.
6. From the Device Manager tab, click the plus sign next to the SCSI controller icon.



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**Note:** If Windows 95 cannot determine the type of host adapter installed in your computer, a yellow question mark labeled Other Devices appears instead of the SCSI controller icon. To continue, select the plus sign next to the question mark. A yellow question mark labeled PCI SCSI Bus Controller appears.

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7. Select **Ok**.
8. Double-click on the 7800 Family host adapter you wish to update, or if a yellow question mark labeled PCI SCSI Bus Controller is displayed, select the question mark.
9. From the Driver tab, select **Change Driver**.



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**Note:** You may be asked to select the hardware type. If asked, select SCSI Controller.

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# DockMate Software Installation

10. Select the **Have Disk** button and enter  
**A:\WIN95**
11. Select the 7800 Family host adapter and then select **Ok**.
12. Select **Ok**.  
*The driver is copied and scanned. You must restart your computer for the changes to take effect.*
13. Select **No** to return to the System Properties window.

## Windows/Windows for Workgroups 3.1x

1. Install Windows 3.1x or Windows for Workgroups 3.1x and start it running on your computer.
2. Insert the *Adaptec EZ-SCSI Lite* diskette into your floppy drive.
3. Select **Run...** from the File menu in Program Manager.
4. When the Run dialog box appears, type **A:\SETUP**.
5. Select **Ok**.
6. Follow the instructions on the screen.

# DockMate Software Installation

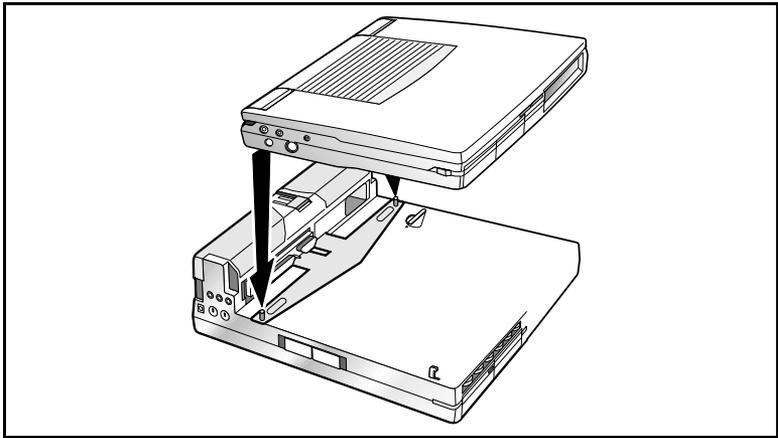
## MS-DOS

1. Install MS-DOS 6.x or above and start it running on your computer.
2. Insert the SCSI Drivers diskette into your floppy drive.
3. At the DOS prompt, type **A:\INSTALL**.
4. Press **Enter**.
5. Follow the instructions on the screen.

# Docking the Notebook

Use the following procedure to dock your notebook computer:

1. Clear an area on your workstation surface to permit the DockMate Multimedia to be flat on the table or desktop while performing the initial docking procedure.
2. Turn off and unplug your computer.
3. Ensure that the rear port covers of the notebook are open.
4. Place your TM5000 computer on the docking pegs.



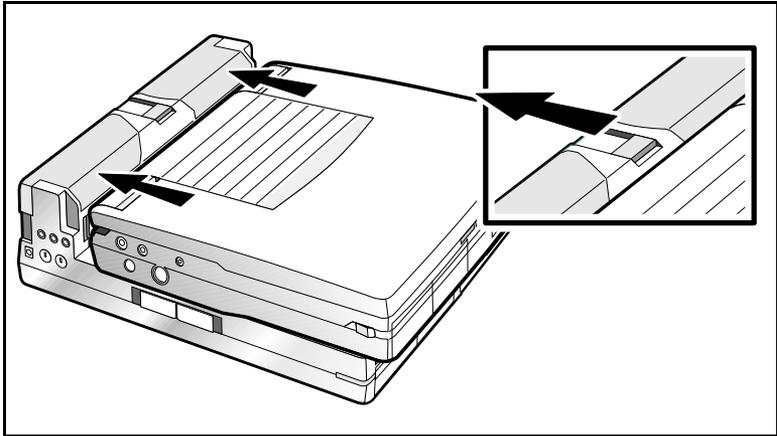
Placing the TM5000 on docking pegs

5. Push the TM5000 firmly to the rear. Ensure that the latches on the top front of the DockMate Multimedia are locked into the corresponding holes in the notebook.
6. Push the securing latch to either the Lock or Security Lock position.
7. Plug the AC connector back into the DockMate Multimedia and turn the computer on.

# Docking the Notebook



**Note:** When you turn on the docked system, a Dock ID appears during the boot process. Dock ID=04 indicates the connection has been successful. Dock ID=FF indicates no connection to the DockMate Multimedia.



Locking the unit

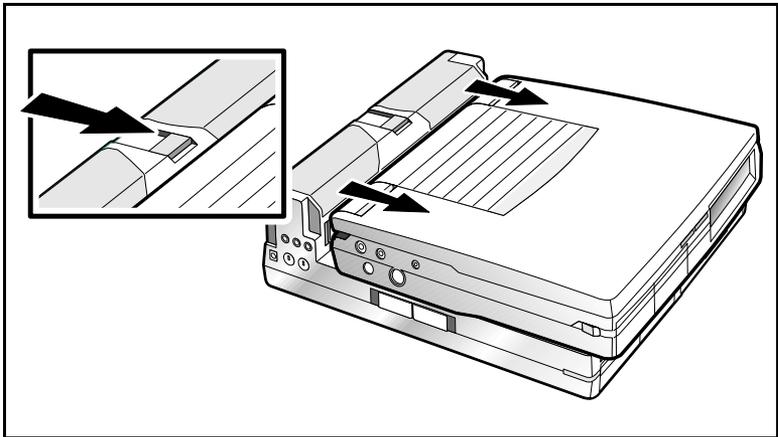


**Note:** For your system to operate on battery power, you must have at least one battery installed in the notebook and one installed in the DockMate Multimedia.

# Undocking the Notebook

To undock a notebook from the DockMate Multimedia system, complete the following steps:

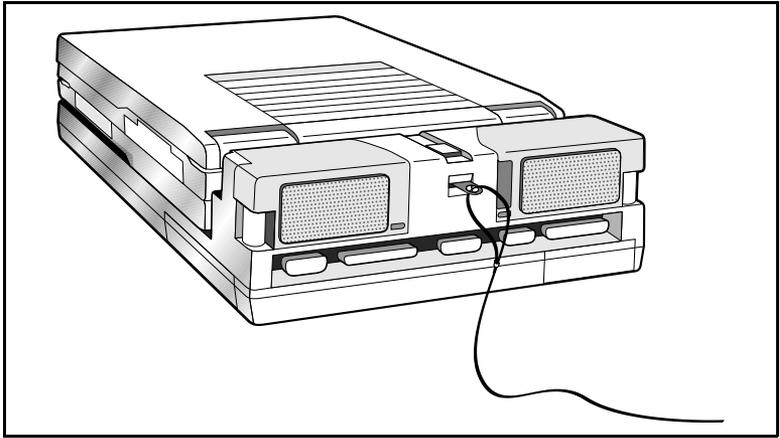
1. Turn off power to the notebook.
2. Pull the securing latch to the Unlock position.
3. Pull the notebook away from the DockMate Multimedia. If you experience difficulty undocking, push the notebook back into the DockMate Multimedia. Then pull it away again.



Undocking the system

## Securing the System

A security locking ring locks the DockMate Multimedia system and the docked notebook. When the securing latch is pushed to the Security Lock position, a metal ring protrudes from the rear of the DockMate Multimedia. To physically secure the system, use a cable to connect the safety ring to a secure source.



Securing the unit

# AC Adapter

The AC adapter:

- ❑ operates the DockMate Multimedia system on AC power whether or not a battery pack is installed. The AC adapter can be operated between 100 - 240 volts AC and has a detachable AC power cord.
- ❑ charges the battery packs when the battery packs are installed in the notebook battery slots.

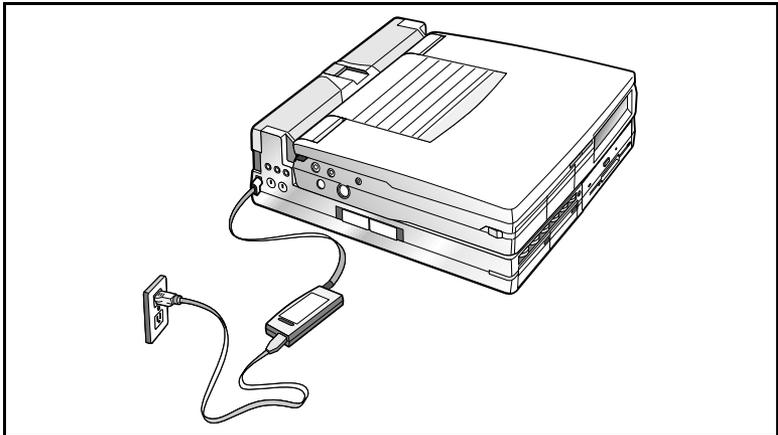
Plugging the AC adapter into the DockMate Multimedia system will also provide power to a docked computer.



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**Caution: Use only the AC adapter recommended in this document (TI Part No. 9802201-0001). Another adapter may damage your system.**

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Connecting AC power



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**Note:** The AC adapter supplied with the DockMate Multimedia provides enough power to adequately supply a fully-loaded DockMate Multimedia system.

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# Charging Batteries

There are two ways to charge batteries used in the DockMate Multimedia:

- ❑ When the power is off on the TravelMate 5000 notebook computer or if the TravelMate is not docked to the DockMate Multimedia, install one or both batteries into the DockMate Multimedia. Connect AC power to the DockMate Multimedia and the batteries are quick-charged (fully-depleted batteries are fully-charged in approximately 3 hours).
- ❑ When the TravelMate 5000 Series notebook computer is docked and the AC is plugged in, the batteries are trickle-charged (fully-depleted batteries are fully-charged in approximately 12 hours).

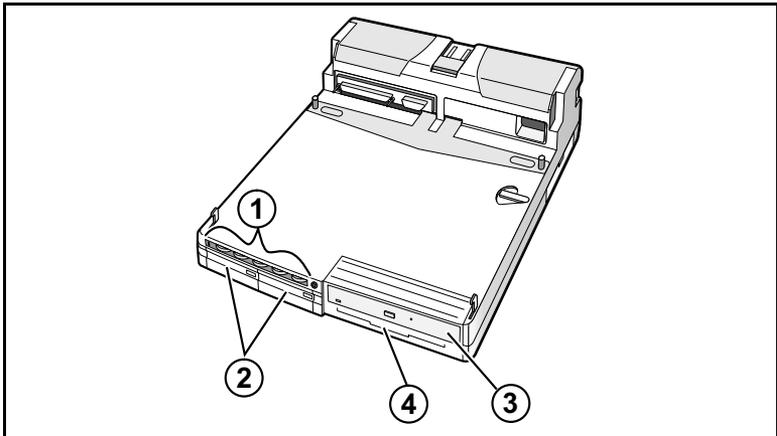
# Features and Ports

This section provides a description of features and ports on the DockMate Multimedia system.



**Caution: Turn off power to the docked system before connecting external devices.**

## Front View

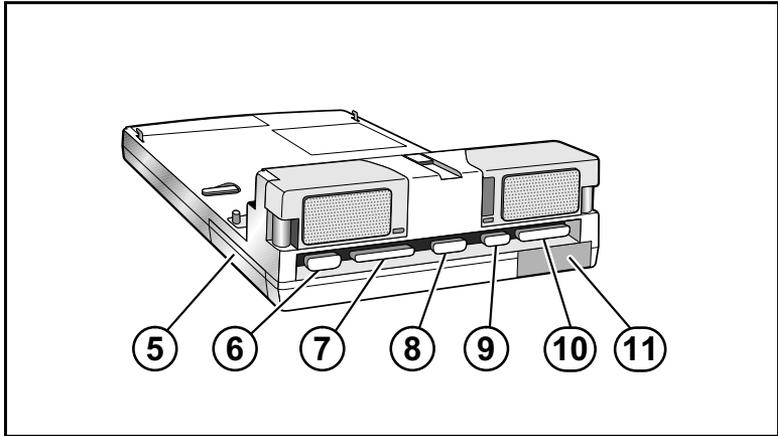


Front of the unit

- |   |  |   |
|---|--|---|
| 1 | <b>Audio Controls</b>                  | Includes (from left to right) Volume, Balance, Bass, Treble, and Mix.   |
| 2 | <b>Battery Slots</b>                   | Includes slots for two lithium-ion batteries (purchased as options). Empty battery cases are shipped with the unit. |
| 3 | <b>Removable CD-ROM Drive</b>          | Includes slot for compact disc drive.   |
| 4 | <b>Removable Hard Drive (optional)</b> | Includes slot for removable hard drive.   |

# Features and Ports

## Rear View



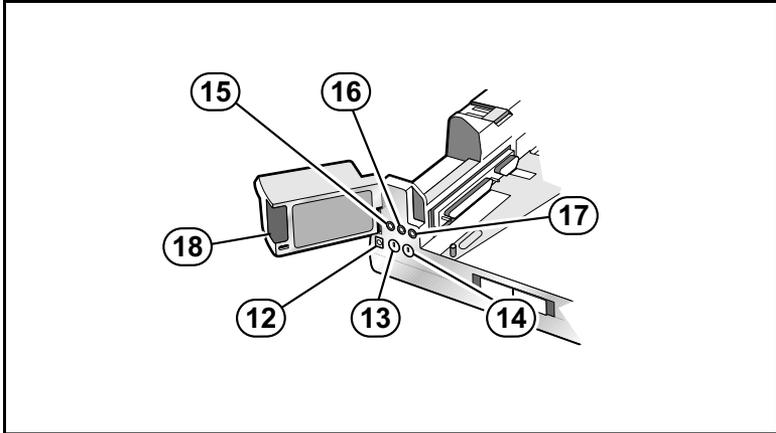
Rear and right side ports

- |    |                          |  |
|----|--------------------------|--|
| 5  | <b>PCI Card Slot</b>     | Allows installation of any third-party half-size PCI bus card so you can connect to networks, video accelerator cards, etc.                |
| 6  | <b>Serial (9-Pin)</b>    | Connects to external devices such as a serial printer.   |
| 7  | <b>SCSI II</b>           | Connects to up to eight SCSI II devices (refer to the <i>SCSI Adapter</i> section of Chapter 3 for detailed information on configuration). |
| 8  | <b>MIDI/ Game</b>        | Connects to external game devices (such as a joystick) or sound devices using a 15-pin micro connector.                                    |
| 9  | <b>VGA</b>               | Connects to an external analog VGA or SVGA monitor using a 15-pin connector.   |
| 10 | <b>Parallel (25-Pin)</b> | Connects to a parallel printer or other device that uses a standard parallel interface. EPP/ECP compatible.                                |
| 11 | <b>S-PCI Slot</b>        | Houses one S-PCI (small form factor PCI) card. S-PCI cards can be purchased from Texas Instruments as an option.                           |

# Features and Ports

## Left Side View

As you view the DockMate Multimedia system from the front (CD-ROM facing you), the following ports are displayed on the left side of the system:



Left side ports

- |    |  |   |
|----|--|---|
| 12 | <b>DC Power</b>                            | Connects the AC adapter output connector to this jack to recharge the battery and supply AC power to the computer.  |
| 13 | <b>External Keyboard or Numeric Keypad</b> | An external PS/2 keyboard may be connected to this port. If you are using a 101-type keyboard, a 101 to PS/2 keyboard adapter must be purchased. An external numeric keypad may also be connected to this port. |
| 14 | <b>External Mouse</b>                      | An external PS/2 mouse may be connected to this port.   |



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**Warning: Do not use this connector and the notebook PS/2 connector simultaneously.**

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- |    |                 |   |
|----|-----------------|---|
| 15 | <b>Audio In</b> | Connects to miscellaneous sound input devices such as radios or tape players. |
|----|-----------------|---|

## Features and Ports

- 16 **Audio Out** Connects to speakers or other sound output devices.
- 17 **Microphone** Connects to an external microphone.
- 18 **SIR Port** Supports IRDA-compliant devices.

This chapter provides information on options available for use with your DockMate Multimedia system. For further information, refer to the installation instructions that come with the specific option or to the online *TravelMate 5000 Series User's Reference Guide*.

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# Batteries

Optional lithium-ion battery packs are available for the DockMate Multimedia. Keeping an extra, fully-charged battery pack on hand can extend the time you can operate your computer. You can replace depleted batteries with charged batteries when your system is still in operational mode (hot pluggable).

For complete instructions on the care and use of your lithium-ion batteries, refer to the *TravelMate 5000 Series User's Guide* or *User's Reference Guide*.



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**Note:** For your system to work on battery power, you must have at least one charged battery installed in the notebook and one charged battery installed in the DockMate Multimedia.

---

## Battery LEDs

If both battery packs are installed in the computer, they deplete in parallel. When the battery charge gets low, the Low Battery indicator (located above the power switch on the keyboard) flashes red. When the batteries are extremely low, the unit automatically goes into sleep mode for several minutes. During this time, you can replace the batteries one at a time. To do this, press **Suspend**. After inserting the charged battery, press any key to resume at the point where the sleep mode was initiated.



---

**Note:** The Low Battery indicator to the left of the volume adjustment on the DockMate Multimedia normally indicates low battery charge. However TI's improved battery design provides more accurate information on current battery levels.

---

There is a row of four LEDs on the front of each battery pack. During charge, these LEDs indicate the following battery states:

- The percentage of power left in each battery. If all four LEDs light, the battery is at least 76% charged. After

reaching 100% charge, the battery LEDs will then turn off. If the battery is removed, the LEDs remain lit for several seconds before turning off (to save the battery charge).

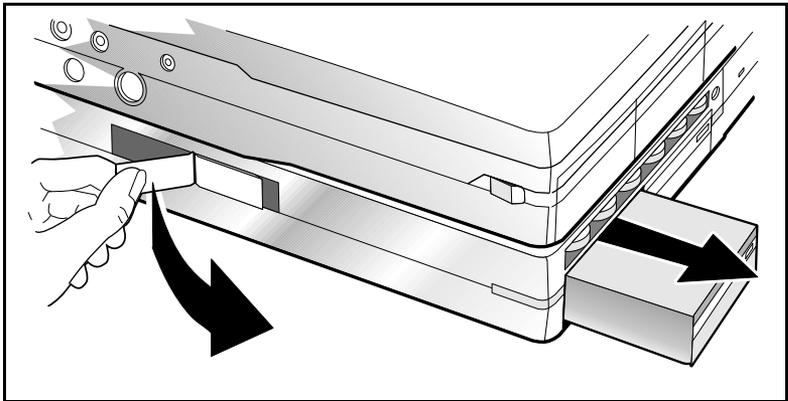


**Note:** If you want to check the charge of any lithium-ion battery after the LEDs have turned off, press the **Battery Status** button to the right of the LEDs on the battery pack and they will light momentarily.

## Removing the Battery Pack

To remove a battery, complete the following steps:

1. Pull the rear battery eject lever on the side of the DockMate Multimedia system to release the left battery. Pull the front battery eject lever to release the right battery.
2. Slide the battery out.

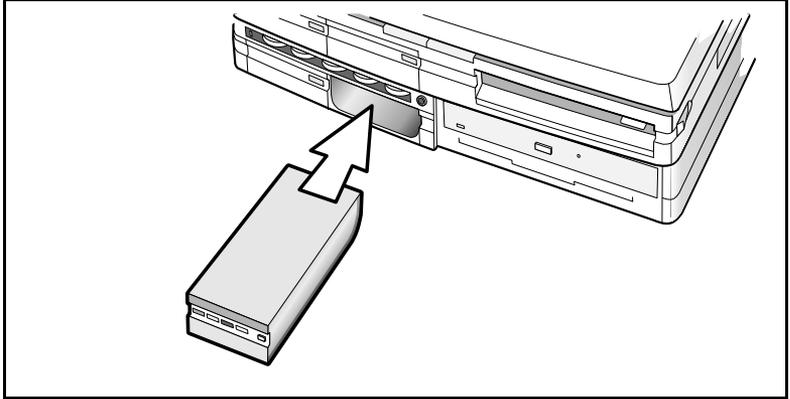


Removing the battery

# Batteries

## Inserting the Battery Pack

To install a battery into the DockMate Multimedia system, turn the battery so that the rounded corners along the length of the battery match the rounded corners of the battery slots. The LEDs must be facing outward. Insert the battery until it clicks and locks into place.



Inserting the battery

# Removable Disk Drives

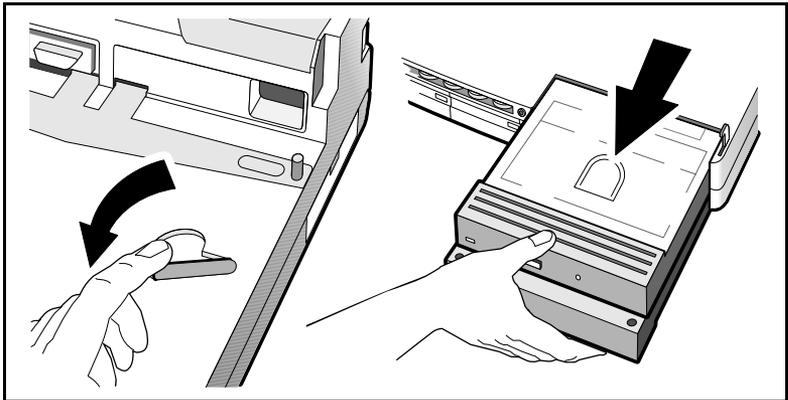
The DockMate Multimedia system supports the following removable disk drives:

- ❑ bottom slot supports optional 2.5 inch, 19 mm removable hard drive (supplied only from TI)
- ❑ top slot supports optional removable CD-ROM drive

To replace or insert a disk drive, complete the following steps:

1. Turn off power to the system.
2. Undock the DockMate Multimedia system.
3. Turn the eject lever on top of the DockMate Multimedia system in a counter-clockwise motion.

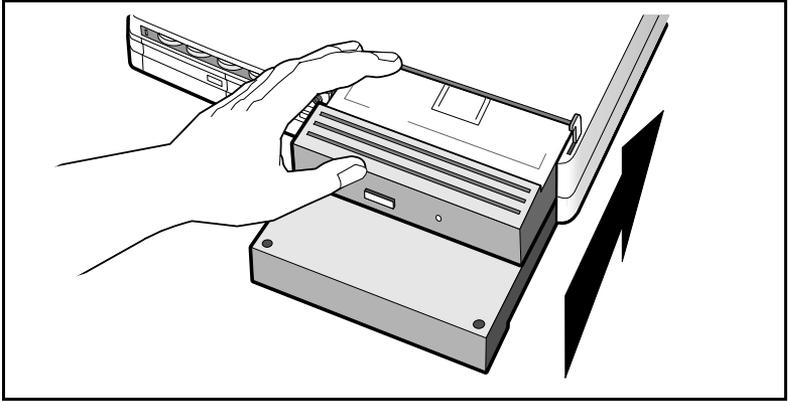
*The existing removable drive(s), if any are present, are released.*



Release disk drives

## Removable Disk Drives

4. Insert new replaceable drive(s) into the system until you feel them lock in.



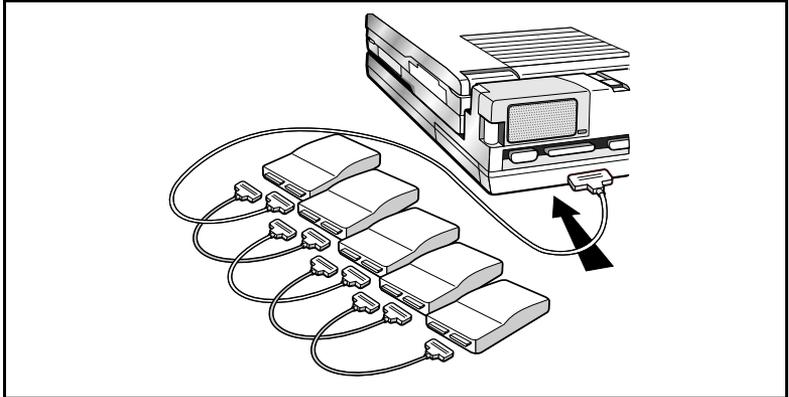
Inserting a disk drive

5. Dock the notebook.
6. Turn on power to the system.

# SCSI Adapter

The DockMate Multimedia system allows you to configure your system for up to six SCSI devices such as CD-ROM drives, tape backup drives, and external hard disk drives. SCSI devices supported may operate on MS-DOS or OS/2 operating systems and Novell® NetWare.

You can daisy chain up to six SCSI devices as shown in the following graphic:



**SCSI connections**

For information on installing SCSI drivers, refer to *DockMate Software Installation* in Chapter 2.

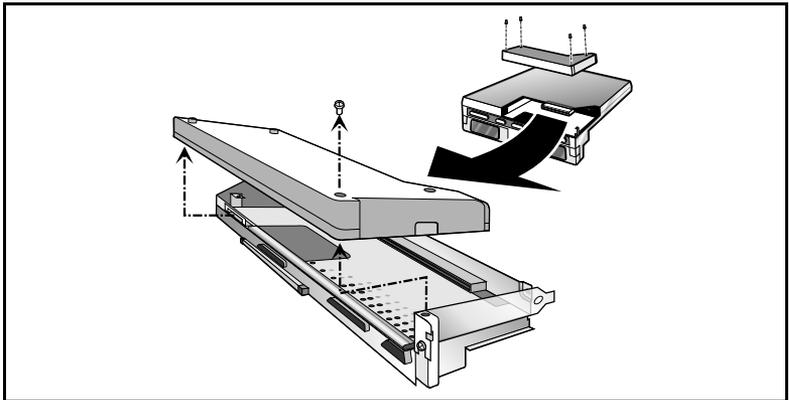
# PCI Card

The PCI card slot houses a 32-bit half-size PCI card. Any PCI card less than six inches long fits into the PCI card slot. Cards are available from third-party manufacturers. PCI cards extend the hardware of your notebook to include:

- communication connection (data send/receive/fax/voice modem)
- video and video acceleration cards
- network cards

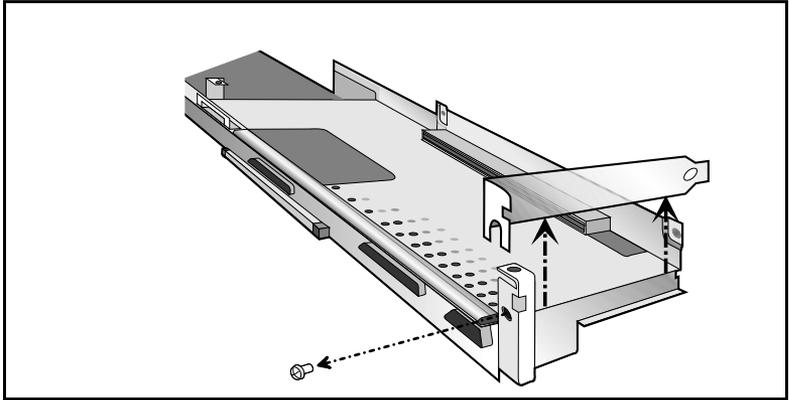
To insert a PCI card, complete the following steps:

- 1.** Turn the Multimedia system upside down on a padded surface.
- 2.** Remove the screws from the cover of the PCI card slot.
- 3.** Pull the cover out then off.



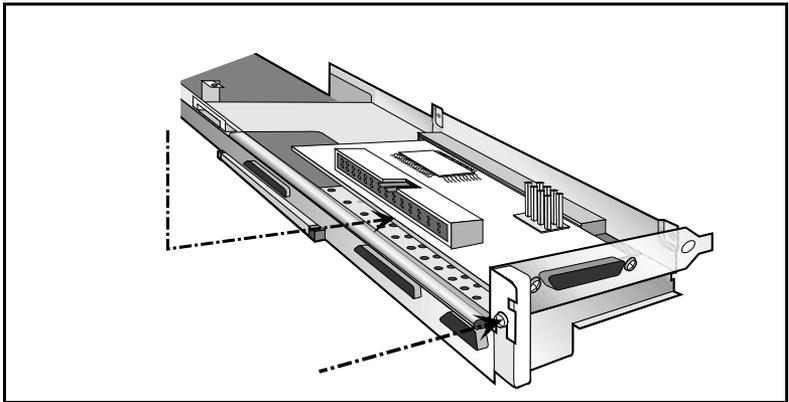
Removing the cover

4. Unscrew and remove the option port cover.



Removing the option port cover

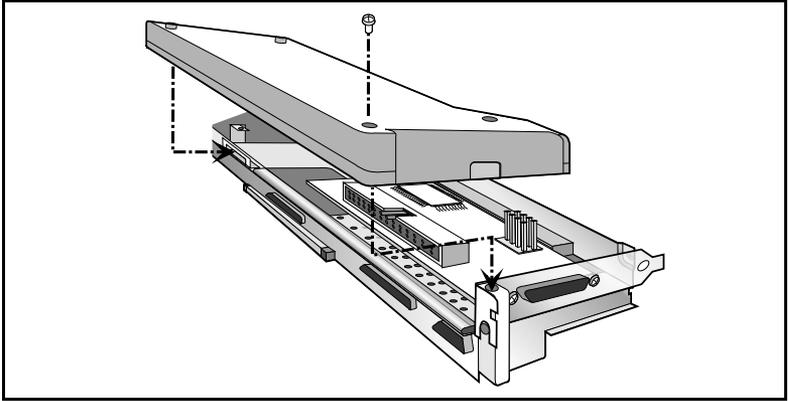
5. Connect the PCI card to the internal connector.
6. Replace the PCI card slot cover.



Connecting the PCI card

# PCI Card

7. Replace the screws on the underside of the PCI card slot.



**Replace the cover**

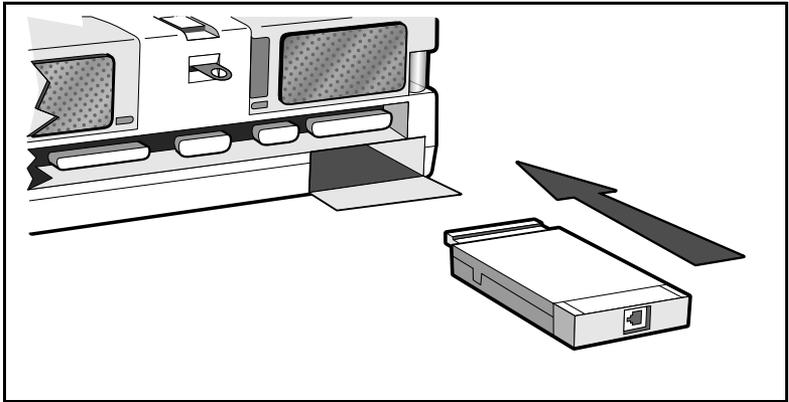
8. To configure your PCI option card, refer to the instructions provided with the option.

## S-PCI Card

Small Form Factor PCI (S-PCI) option cards can be ordered from Texas Instruments. The S-PCI is a true 32-bit PCI bus and supports a network option card.

The DockMate Multimedia system can support one S-PCI option card. Unlike PCMCIA option cards, S-PCI cards are not meant to be frequently interchanged.

To insert an S-PCI card, you must first open the door to the S-PCI option card slot(s) and then insert the card.



Inserting the S-PCI card

To configure your S-PCI option card(s), refer to the instructions provided with each option.

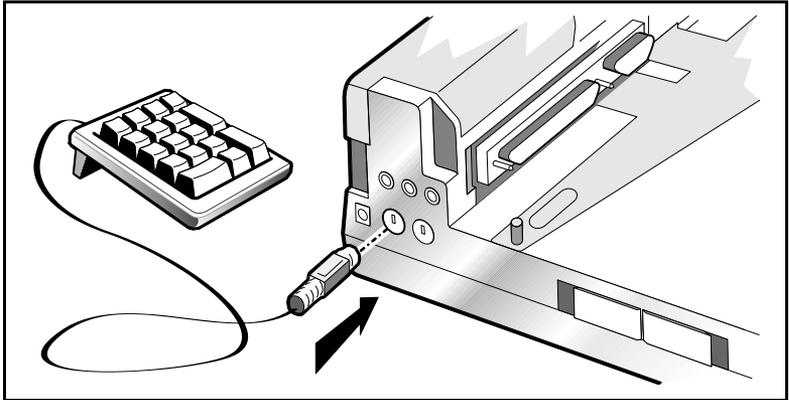
For an updated list of available S-PCI cards, call 1-800-TI-TEXAS or the reseller nearest you.

## PS/2 Options

PS/2 options for the Multimedia include:

- Mouse can be used instead of the pointing device.
- Keyboard can be used instead of the embedded keyboard on your TM5000.
- Numeric Keypad can be used instead of the internal numeric keypad.

To use a PS/2 option, turn power off to the DockMate Multimedia system. Plug the option's cable connector into the correct PS/2 port (refer to *Features and Ports* in Chapter 2).



**Connecting a PS/2 option**

For further information on your PS/2 options, refer to instructions in the online *TravelMate 5000 Series User's Reference Guide* or the Installation Instructions that came with your option.

## External Monitors

To install an external VGA monitor (optional), connect the VGA cable connector to the 15-pin connector on the rear of the DockMate Multimedia. The DockMate Multimedia supports all external monitors supported by the TM5000. For further information, refer to the *TravelMate 5000 Series User's Guide*.



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**Note:** Refer to the online *TravelMate 5000 Series User's Guide* and *User's Reference Guide* for information on VGA Utilities.

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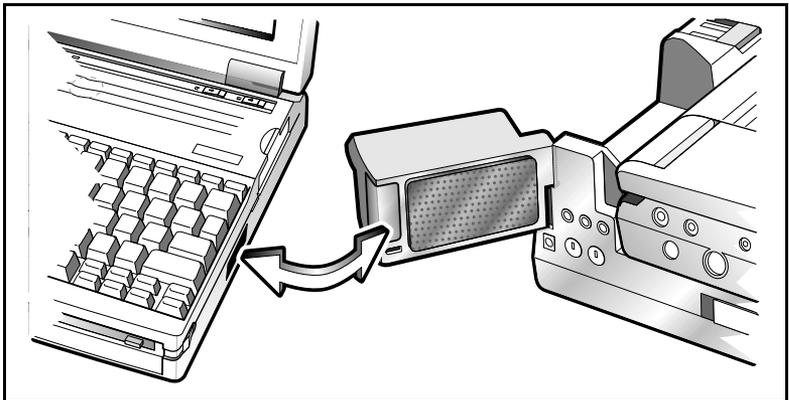
# SIR Options

When the system is docked, you can use the SIR port located on the DockMate Multimedia and/or the TM5000. Instructions in this section discuss use of the SIR port on the DockMate Multimedia. To use the SIR port on the TM5000, refer to your online *TravelMate 5000 Series User's Guide* or *User's Reference Guide*.

The Serial Infrared (SIR) port offers wireless communication with other TM5000 Series notebooks or with a variety of IRDA-compliant devices made by other manufacturers. Ensure that the third-party manufacturer supplies you with the appropriate SIR drivers before attempting connection.

To use the SIR port on your DockMate Multimedia, complete the following steps:

1. With the unit facing you, swivel the left speaker around to face the SIR device on the unit you want to make connection with.
2. Align the SIR ports of the two devices making sure that the distance separating them is from .15 meters to one meter.



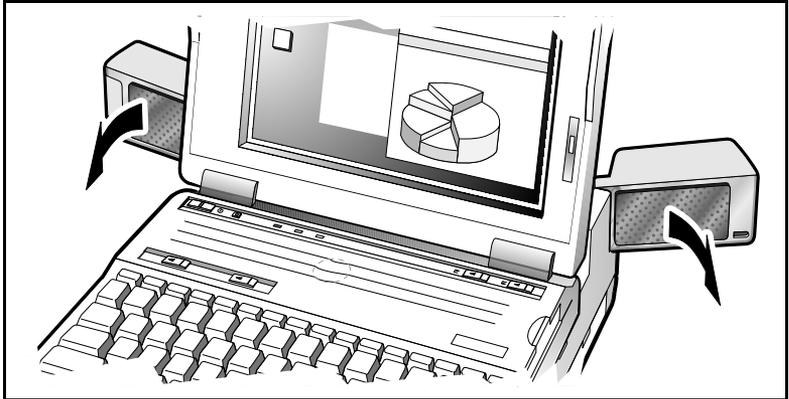
Using the SIR port

## SIR Options

After the devices are aligned, you must use TranXit™ software (located in the TranXit2 group in Windows for Workgroups or in the TranXit2 group under Start/Programs of Windows 95) to complete the SIR communication process. For further information, refer to the online *TranXit Quick Reference Guide* or the online *TravelMate 5000 Series User's Reference Guide* that came with your computer.

## Speakers

Two retractable speakers are provided on the DockMate Multimedia system. To use the speakers, swivel them outward so that they face the front of the system.



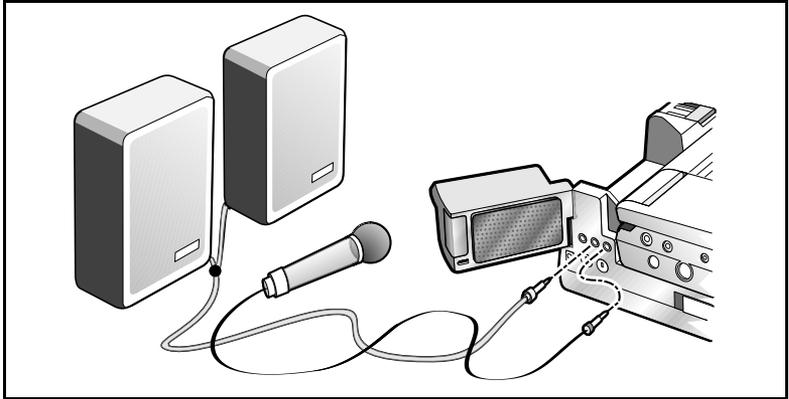
**DockMate Multimedia speakers**

## Audio Connections

Your DockMate Multimedia system provides connections for:

- Audio In - connects to external sound input devices such as radios or tape players.
- Audio Out - connects to speakers or other sound output devices.
- Microphone - connects to an external microphone.
- Headphones - connects to external headphones.

Further information on audio connections is provided in Chapter 2, *Features and Ports*.



Audio In/Out connections

## Audio Controls

The DockMate Multimedia provides the following audio controls:

- Volume - adjusts sound intensity
- Balance - distributes sound to left and right speakers
- Bass - adjusts the volume of the lower frequency range
- Treble - adjusts the volume of the upper frequency range
- Mix - combines and adjusts audio signals

Further information on audio controls is provided in Chapter 2, *Features and Ports*.

# Miscellaneous Options

There are additional options available for use with your DockMate Multimedia system. These include:

**Batteries** You can purchase spare batteries (TI Part No. 9786247-0001) for your DockMate Multimedia system. For information on lithium-ion batteries, refer to your online *TravelMate 5000 Series User's Guide* or *User's Reference Guide*.

**Hard Drives** You can purchase 810 MB (TI Part No. 9802225-0002) and 1.2G byte hard drives (TI Part No. 9802225-0003) for use with your DockMate Multimedia system.

**Executive Brief Case** (TI Part No. 9793372-0001) - a carrying case designed to carry the notebook, external docking system, and various smaller accessories.

**Note:** To fit the DockMate Multimedia system into the brief case, remove the pad at the rear of the case.

**Printers** You can connect almost any parallel printer to the parallel port or a serial printer to the serial port. Texas Instruments makes a variety of laser and inkjet printers you can use with your computer.

## This chapter tells you about:

- Using DockMate utilities

## Contents

<b>Introduction</b> .....	<b>4-2</b>
<b>Using TI Setup</b> .....	<b>4-3</b>
<b>Using the SetDock Utility</b> .....	<b>4-6</b>
Running SetDock .....	4-6
SetDock Key Functions .....	4-7
Exiting SetDock.....	4-8

# Introduction

TI provides two utilities that are copied to your system when you install software from the *DockMate System Installation* diskette:

- TI Setup - for use with Windows 95 and Windows for Workgroups
- SetDock - for use with MS-DOS

These utilities allow advanced users to configure special operating modes or parameters for hardware attached to the TravelMate notebook or the DockMate Multimedia.

# Using TI Setup

TI Setup is updated on your system at the time you install the *DockMate System Installation* diskette. TI Setup is used to configure peripheral hardware attached through your DockMate Multimedia. TI Setup is used in either Windows or Windows 95 environments.

To configure peripherals for use with your system, complete the following steps:

1. Complete the following for your operating system:
  - If you are using Windows 95 - Double-click on **TI Setup** in the Control Panel
  - If you are using Windows for Workgroups - Double-click on **TI Setup** in the TravelMate Notebook Center group
2. Select the tab labeled **Ports-Dock B**.
3. Under Dock Type, use the pulldown menu (by selecting the ▼) and single-click on **DockMate Multimedia**.
4. Using configuration information provided with your peripheral device, change any required settings in this window.

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**Note:** A **Ports-Dock A** tab (identical to the Ports-Dock B tab) is provided in case you have more than one type of DockMate system and want to maintain settings for both types. If both Ports Dock A and B are set to the same type of DockMate system, the Ports Dock B settings take precedence. The **Ports - Undocked** tab indicates settings for your TravelMate notebook when undocked from the DockMate Multimedia.

---



# Using TI Setup

The following table provides a synopsis of all options available on the Ports-Dock A or Ports-Dock B tabs:

Item	Options	Description
Dock Type	None DockMate DockMate Plus (default) DockMate Net Ready DockMate Multimedia General Pn'P Dock	Allows you to select the type of docking station attached to your notebook. General Pn'P Dock provides auto setup for any operating system that supports true Plug 'N Play.
Dock 9-Pin	Off COM1 (default) COM2 COM3 COM4	Allows you to disable or set the port address used for the notebook or docking system serial port.
Notebook SIR	Off (default) COM1 COM2 COM3 COM4	Allows you to disable or set the port address used for the docking system serial infrared port.
Dock SIR	Off (default) COM1 COM2 COM3 COM4	Allows you to disable or set the port address used for the docking system port.
COM3/COM4	338h/238h 3e8h/2e8h (default) 2e8/2e0	Allows you to select the address at which COM ports 3 and 4 operate.
Dock Parallel Port Address	Off 3BCh 378h (default) 278h	Allows you to select the address at which the parallel port operates.
Dock Parallel Port Extended Mode	Off (default) SPP EPP and SPP ECP ECP and EPP	Allows you to select the protocol for bidirectional operation (printers or parallel network adapters).

# Using TI Setup

Item	Options	Description
Sound System	On (default) Off	Allows you to turn 16-bit sound on or off.
Internal Microphone	On Off (default)	Allows you to turn the notebook's internal microphone on or off.
Internal Speakers	On Off (default)	Allows you to turn the notebook's internal speaker on or off.

**Note:** On some older systems, the microphone and speaker are controlled by a single setting. If two separate controls appear on such systems, both the microphone and speaker actually follow the microphone setting and the speaker setting is ignored.

# Using the SetDock Utility

SetDock is copied onto your system at the time you install the *DockMate System Installation* diskette. The SetDock utility is used in the DOS environment only. Like TI Setup, it configures your system for use with peripheral devices. If you are using Windows or Windows 95, use TI Setup when you add or change peripherals. For more information on options available on SetDock screens, refer to the table in the *Using TI Setup* section of this chapter.

## Running SetDock

To run SetDock from MS-DOS, go to the UTILS directory (C:\UTILS) and type

### **SETDOCK.EXE**

and press **Enter**. The SetDock main screen then appears on your monitor.

TravelMate 5000 Dock Setup Program Version 1.41 Mar 18 1995			
Dock Configuration 'B'		Page 2 of 2	
Dock Type: DockMate Multimedia			
Serial Ports		Dock Parallel Port	
Dock 9 Pin:	COM1	Address:	378h
Notebook SIR:	Off	Extended Mode:	Off
Dock SIR (if present)	Off		
COM3/COM4 Addresses:	3e8/2e8		
Sound System:	On	Internal Microphone Speaker:	Off Off

### SETDOCK page 2 of 2



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**Note:** The Dock Configuration B screen contains default information for the DockMate Multimedia. The Dock Configuration A screen contains default information for the DockMate Plus.

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# Using the SetDock Utility

## SetDock Key Functions

To use SetDock utility screens, the following keys are provided.

Key	Function
← →	Moves forward or backward through values available for the selected field
↑↓	Moves up or down through the list of fields
Tab	Moves down through the list of fields
Esc	Displays a screen with Exit options
F1	Provides help
+/-	Moves forward or backward through the values available for the selected field
Spacebar	Moves forward through the values available for the selected field
PgUp PgDn	Switches between Dock Configuration A and Dock Configuration B

# Using the SetDock Utility

## Exiting SetDock

To leave the SetDock utility, complete the following steps:

1. Press **Esc**.  
*The Exiting Setup Menu appears.*
2. Select one of the following options:

Key	Function
Esc	Returns you to the main screen
F4	Saves all changes, exits Setup, and reboots
F5	Loads default values for all pages. Use this setting to reload values if you have had problems during configuration. Press <b>Esc-F4</b> afterward to save and exit.
F6	Aborts Setup without saving values

# Troubleshooting Procedures

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## This Chapter Provides Tips for:

- Connecting your notebook
- Installing options on your DockMate Multimedia
- Improving sound quality
- Using PCMCIA cards




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**Note:** For other troubleshooting tips, refer to the README.TXT file on the *DockMate System Installation* diskette.

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# Notebook Connection

## Docking

- Visually inspect the notebook and verify that the notebook is docked properly (refer to Chapter 2, *DockMate Multimedia Installation*).
- Visually inspect the connectors on the notebook and the DockMate Multimedia to ensure there is no physical damage to the connector areas of the notebook.
- Ensure that you are using the correct AC adapter (TI Part No. 9802201-0001).
- Try disconnecting the notebook and running notebook diagnostics to isolate the problem to either the notebook or the DockMate Multimedia.

For further information, refer to Appendix D, *Diagnostics* in the online *TravelMate 5000 Series Notebook Computer User's Reference Guide* for a description of the error code messages.

- Try cycling power on the notebook.

## Undocking

Pull the notebook away from the DockMate Multimedia. If you experience difficulty undocking, push the notebook back into the DockMate Multimedia. Then, pull it away again.

# Option Installation

If you experience difficulty with a serial device, parallel device, PS/2 device, or external VGA monitor, disconnect the DockMate. Connect the peripheral to the notebook. If it runs properly, you can determine that the anomaly lies with the DockMate and not with your peripheral or with the notebook.

## Ports

If you are running Windows for Workgroups, Windows 95, or MS-DOS and an external device (such as a printer) is failing, check the following:

1. Ensure that the device's I/O cable is the correct type for the port and is securely installed.
2. Ensure that the external device is powered up and properly connected to the DockMate System and that the external device is properly configured (refer to Chapter 2, *DockMate Multimedia Installation*).
3. If you are experiencing a failure on the serial port, check to see that the serial port is correctly configured to match the settings in the external device (refer to *TI Setup* in Chapter 4). If your application software does not initialize the serial ports, you must use the MS-DOS MODE command in your AUTOEXEC.BAT file (refer to your online *MS-DOS User's Manual* for further instructions).

## Printer

If you are running Windows 95 and are experiencing problems with printing, complete the following steps:

1. From the Windows Control Panel, select the **System** icon.
2. Select the **Device Manager**.
3. Select the **Printer port**.
4. Verify that the I/O Range is 378-037A.

# Option Installation

5. Verify that the IRQ is set to 07.
6. Select **Ok**.

## Sound Quality

If you experience difficulty with sound quality, check for the following:

- If you experience interference or poor sound quality, turn the mix control on the DockMate Multimedia all the way to the right. Use Volume controls to adjust the sound.
- Select the **Power** icon from the Control Panel. In the Power Management section of the dialog box, select **Off**. Select **Ok** to save settings and exit the utility.
- Use the headphone port on the front of the unit to output sound to headphones on the DockMate Multimedia. Do not use the Audio Out port on the side.

## Microphone

If you experience difficulty with your microphone, check for the following:

- No music/audio CD sound from the CD - Disable the microphone for the selected docking station using TI Setup, Setup, or SetDock utilities (refer to Chapter 4).
- No Line-In sound from the external Line-In Jack - Disable the microphone for the selected docking station using TI Setup or SetDock utilities (refer to Chapter 4).
- Internal microphone does not work - Enable the microphone for the selected docking station using TI Setup or SetDock utilities (refer to Chapter 4).
- CD volume control does not affect CD music volume - Use the Line-In control of your software to control both Line-In and CD volume.

# Network (PCMCIA) Recognition

On some TravelMate Pentium® products, a PCMCIA Ethernet card error may occur after DockMate installation. If this happens, refer to the following sections (*Windows 95*, *Windows 95 Commercial Upgrade*, or *Windows for Workgroups*) depending on your operating environment.

## Windows 95 (TI Installed)

The following instructions should clear PCMCIA Ethernet card problems in a TI-installed Windows 95 environment.

### Reconfigure TI Setup

1. Open the Windows Control Panel and select the **TI Setup** icon.
2. Select the **System Configuration** tab and set the parameter for PCMCIA I/O Addresses to Maximum.
3. Select the tab marked **Ports-Dock B**.
4. Select **DockMate Multimedia** for the Dock Type.
5. Select **Dock Parallel Port Extended Mode**.
6. Choose one of the following as the recommended settings for docking:
  - SPP is selected as **Standard Parallel Port**
  - ECP and EPP is selected as **Extended Parallel Port** (setting preferred for most users).
7. Select **Ok**.
8. Reboot and proceed to *Reconfigure System Information*.

### Reconfigure System Information

1. Select the **System** icon in the Control Panel.
2. Select the **Device Manager** tab.

# Network (PCMCIA) Recognition

3. Double-click on the **Ports (COM & LPT)** option.  
*A list of selections appears.*
4. Double-click on **Communications Port (COM2)**.  
*The COM2 configuration is displayed.*
5. Select the **General** tab.
6. Deselect **Dock 1 (Current)** located in the Device Usage area.
7. Select **Ok** to close the Communications Port Properties window.
8. Select **Ok** to close the System Properties window.
9. Select the **Start** icon at the bottom of your screen.
10. Select **Shutdown**.
11. Select **Restart the computer**.
12. Select **Yes**.

*The notebook restarts and the error should be cleared.*

## Windows 95 (Commercial Upgrade)

This version of Windows 95 is not TI-installed. If you are running the Windows 95 Commercial Upgrade, these instructions should clear PCMCIA Ethernet card problems.

### Reconfigure TI Setup

1. Open the Windows Control Panel and select the **TI Setup** icon.
2. Select the **System Configuration** tab and set the parameter for PCMCIA I/O Addresses to Maximum.
3. Select the **Dock B** tab.
4. Select **DockMate Multimedia** as the Dock Type.

# Network (PCMCIA) Recognition

5. Select **Ok**.

*You are prompted to reboot.*

6. Reboot and proceed to *Reconfigure System Information*.

*Windows 95 starts configuring unknown hardware (this may happen multiple times and is a standard operation for Plug 'n Play in Windows 95).*

## Reconfigure System Information

The following steps allow you to reconfigure system information for the Windows 95 Commercial Upgrade.

### Checking Device Settings

1. Select the **System** icon located in the Control Panel.
2. Select **Ports (COM & LPT)** from the Device Manager tab.
3. Select **Resources** after selecting the COM port being used by your Ethernet card (COM1 or COM2) and ensure that Ethernet is set to IRQ 10 and an address of 300.
4. Select **Resources** after selecting the COM port being used by your modem and ensure that the modem is set to IRQ 3 and an address of 3e8.
5. Select **Resources** after selecting PCMCIA socket and verify that the PCMCIA socket is not turned off.

### Remove Ports and Devices

1. Select the **System** icon located in the Control Panel.
2. Select **Ports (COM & LPT)** from the Device Manager tab.
3. Select and remove all communications ports except COM1.
4. Select and remove all PCMCIA devices.

# Network (PCMCIA) Recognition

5. Remove PCMCIA hardware devices from the TravelMate notebook.
6. Close the System Properties window and restart the system.

## Update Device Usage

1. Select the **System** icon located in the Control Panel.
2. Select **Ports (COM & LPT)** from the Device Manager tab.
3. Double-click on **Communication Port (COM2)**.
4. Select the **General** tab.
5. Deselect **Dock 1 (Current)** located in the Device Usage area.
6. Select **Ok**.

## Reinstall Hardware

1. Reinstall all PCMCIA hardware devices one at a time.  
*Windows 95 should automatically configure software for each device.*
2. Select the **Refresh** button on the Device Manager screen in System Properties and correct any conflicts.

## Turn off Automatic Settings

1. Select the **System** icon located in the Control Panel.
2. Select **Ports (COM & LPT)** from the Device Manager tab.
3. Double-click on the icon for each device you have added.  
*Configuration properties for the selected device appear.*
4. Select **Resources**.
5. Ensure that **Use automatic settings** is deselected.

# Network (PCMCIA) Recognition

## Accept Configuration Changes

1. Select **Ok** to close the System Properties window.
2. Close the Control Panel.
3. Select the **Start** icon at the bottom of your screen.
4. Select **Shutdown**.
5. Select **Restart the computer**.
6. Select **Yes**.

*The notebook restarts and the error should be cleared.*

## Windows for Workgroups v3.11

If you are running Windows for Workgroups v3.11, the following instructions should clear problems with your PCMCIA Ethernet card:

1. Go to TI Setup (located in the TravelMate Notebook Center group) and select the **System Configuration** tab.
2. Ensure that the PCMCIA I/O is changed from Minimum to Maximum.
3. Select the **Ports-Dock B**.
4. Select **DockMate Multimedia**.
5. Select **Ok**.  
*You are prompted to reboot.*
6. Reboot the computer.

# Appendix A

## Reference Material

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### Other Manuals About the System

The following documents provide additional information about hardware and software used in conjunction with the DockMate Multimedia system:

Product	Manual	Part Number
TravelMate 5000	User's Guide	online
	Maintenance Manual	9786166-0001
	User's Reference Guide	online
Windows for Workgroups v3.11	User's Guide	online
MS-DOS	User's Manual	online
Windows 95	User's Manual	online
DockMate Multimedia	Maintenance Manual	9809839-0001

# Appendix B

## DockMate Multimedia Specifications

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Specifications for the DockMate Multimedia are provided in the following table.

<b>DockMate Multimedia Specifications</b>		
<b>Specification</b>	<b>Type</b>	<b>Value</b>
Physical Dimensions	Width	11.0 inches
	Length	10.75 inches
	Height	4 inches
	Weight	approximately 6 lbs. without options
Power Adapter	Input	90 to 264 VAC
	Frequency	47 to 63 Hz
	Current	0.4 to 0.7 A
	Output	0.6 to 0.3 A 5.2 VDC @ 4.0 A, 5.2 V 0.0 6.0 VDC @ 0.3 A, 6.5 V 2.2 Maximum of 60 Watts
Temperature	Operating	50 to 104 degrees F (10 to 35 degrees C)
	Storage/Transit	-4 to 140 degrees F (-20 to 60 degrees C)
Humidity	Operating	20 to 80 percent, non-condensing
	Non-Operating	10 to 90 percent, non-condensing
Altitude	Operating	-1,000 ft. to 10,000 ft.
	Non-Operating	-1,000 ft. to 10,000 ft.

# Appendix B

DockMate Multimedia Specifications		
Specification	Type	Value
Shock	Operating	6 g applied in six orientations (pos. and neg. X, Y, and Z axes)
	Non-Operating	35 g in X , Y, and Z axes
Vibration	Operating	0.5 g, 5 to 500 Hz
	Non-Operating	0.5 g, 5 to 500 Hz
Agency Approvals	Underwriter's Laboratory (UL) Standard 1950 (safety)  Canadian UL listed C22.2 No. 950 (safety) EN60950, TUV Rheinland (safety)  FCC CFR 47, Part 15, Subpart B, FCC Level B (RFI/EMI)  Canadian Department of Communications (DOC) Certification (RFI/EMI)  VDE 0878, Class B (RFI/EMI)  CISPR-22/EN55022 Class B (RFI/EMI)	

# Appendix C

## Disk Compression

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### Windows for Workgroups

This appendix discusses how to update utilities for a Windows for Workgroups system that is operating under disk compression.

Modify your config.sys file to disable emm386.sys.

1. Make a backup copy of your Windows for Workgroups config.sys file.

2. Edit the current config.sys file by typing

**edit config.sys**

at a DOS prompt.

3. Remark out the line under the DOS selection. It should look similar to the following:

```
[dos]
rem=====Stop at DOS without PC card support=====
REM DEVICE      =C:\DOS\EMM386.EXE NOEMS
DEVICEHIGH /L:2, 5088 =C:\JAZZ\JAZZ.SYS P220 I5 D1 E7 T330 Q2
```

4. After the change, save the file and boot the system off of the C drive. Select **MS-DOS** from the Startup menu.
5. Continue with procedures to upgrade firmware (refer to Chapter 2).
6. After the installation process is complete, restore your original config.sys by copying your saved configuration file as config.sys.

# Appendix C

## Windows 95

If you are using DriveSpace with Windows 95, complete the following steps:

1. Press **F8** when you hear the beep as you reboot your system.
2. Choose **Command Prompt Only**. (This ensures that your DriveSpace drivers are loaded.)
3. Type  
**a:\install**  
and press **Enter**.
4. Continue with procedures to upgrade firmware (refer to Chapter 2).

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