



Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for NEC POWERMATE 8100. You'll find the answers to all your questions on the NEC POWERMATE 8100 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual NEC POWERMATE 8100
User guide NEC POWERMATE 8100
Operating instructions NEC POWERMATE 8100
Instructions for use NEC POWERMATE 8100
Instruction manual NEC POWERMATE 8100

High Performance With Manageability For The Networked Enterprise

POWERMATE® 8100 SERIES



USER'S GUIDE

NEC



[You're reading an excerpt. Click here to read official NEC POWERMATE 8100 user guide](http://yourpdfguides.com/dref/2311277)
<http://yourpdfguides.com/dref/2311277>

Manual abstract:

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....C-11 Glossary Index Regulatory Statements Contents ix Using This Guide The PowerMate 8100 Series User's Guide provides a comprehensive reference to information about your computer. The guide contains the following information: Chapter 1, Reviewing System Features, provides a look at the front, rear, internal, and peripheral features of the system. It also gives a summary of the system's hardware and software, and security features. The chapter includes a

quick-reference chart for finding information described more fully later in the document. T Chapter 2, Setting Up the System, explains how to set up, start up, and shut down the system. It also provides information on installing applications, and tips on caring for the system.



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http://yourpdfguides.com/dref/2311277](http://yourpdfguides.com/dref/2311277)

T Chapter 3, *Configuring the System*, describes how to use the software utilities shipped with your system, including the BIOS Setup Utility, the NEC Select Install CD, and the NEC Driver CD. It also provides detailed information on jumpering devices in the system. T Chapter 4, *Managing System Resources*, describes the utilities that allow you to identify and control system and networked resources. See this chapter for information about LANDesk™ Client Manager, NEC WebTelligent™, the NEC SNMP Agent, the Cheyenne Backup utility, and NEC Security. T Chapter 5, *Installing Options*, provides detailed installation procedures for internal options. T Chapter 6, *Solving System Problems*, contains troubleshooting tips for solving simple problems and describes how to find help when you cannot solve a problem yourself. T Chapter 7, *Getting Services and Support*, describes the services available to you for information and help, and describes how to access the services. Using This Guide xi T Appendix A, *Setting Up a Healthy Work Environment*, contains guidelines to help you use your computer productively and safely. This appendix also instructs you on how to set up and use your computer to reduce your risk of developing nerve, muscle, or tendon disorders. Prolonged or improper use of a computer workstation may pose a risk of serious injury.

To reduce your risk of injury, set up and use your computer in the manner described in Appendix A, *Setting Up a Healthy Work Environment*. T Appendix B, *System Specifications*, provides a technical description of your computer and its components. T Appendix C, *Questions and Answers*, provides answers to questions frequently asked about the system. Text Conventions This guide uses the following text conventions. T Warnings, cautions, and notes have the following meanings: Warnings alert you to situations that could result in serious personal injury or loss of life.

Cautions indicate situations that can damage the hardware or software. Note Notes give important information about the material being described. T Names of keyboard keys are printed as they appear on the keyboard, for example, Ctrl, Alt, or Enter. T Text or keystrokes that you enter appear in boldface type. For example, type abc123 and press Enter.

xii Using This Guide Related Documents In addition to this guide, the following printed documentation ships with your computer. T NEC PowerMate 8100 Series Quick Setup/Quick Reference The Quick Setup shows how to quickly get the system connected and powered on. The Quick Reference briefly describes the documentation, NECC tools and utilities, software applications, and services available with the NEC PowerMate® 8100 Series computer. T How Does Your Workplace Measure Up? This brochure provides information for setting up and using the computer productively and safely. Information includes guidelines to reduce the risk of injury associated with using a computer. T NEC PowerMate 8100 Series Release Notes Release Notes provide additional information about the computer that was not available at the time the user's guide was printed. Your system comes with the following online documentation on the NEC Select Install CD: T NEC Help Center The NEC Help Center is an online version of the printed user's guide. It provides information about your system under the following topics: System Tour, System Information, System Upgrades, Service and Support, and Reference. T Healthy Environment This is an online help file that complements the "How Does Your Workplace Measure Up?" brochure. In addition to the documentation that ships with the system, the following documentation is available from NECC: T NEC PowerMate 8100 Series Service and Reference Manual This manual provides information for maintaining, troubleshooting, and repairing the computer.

This manual also includes hardware and interface information for programmers, engineers, and others who need to know how the system is designed. Using This Guide xiii To purchase the service and reference manual, call NECC at 1-800-632-4525 (in the U.S. and Canada) or your local NECC sales provider (outside the U.S. and Canada). Service and reference manuals are also available from the NECC website (see Chapter 7). xiv Using This Guide 1 Reviewing System Features ! ! ! ! ! Front Features Inside Features Rear Features Stand Speakers System Features Prolonged or improper use of a computer workstation may pose a risk of serious injury. To reduce your risk of injury, set up and use the computer in the manner described in Appendix A, "Setting Up a Healthy Work Environment." This chapter highlights system hardware and software, and describes the security features of the system.

For more information about using system features, see Chapter 3, "Configuring the System" and Chapter 4, "Managing System Resources." Front Features The following figures show the features on the front of the system. A brief description follows the figures. Front features - desktop models A Power Button B B - Suspend Button C C - Reset Button D Power Lamp E Disk Lamp F IR Window G CD-ROM Drive H Diskette Drive I-2 Reviewing System Features Front features - minitower models A Diskette Drive B CD-ROM Drive C Stand D IR Window E Suspend Button F Disk Lamp G Disk Lamp H Reset Button I Power Button System Controls and Lamps System controls let you select specific system operations. Lamps let you know the status of system operation.

The previous figures show the controls and lamps on the front of the system. ! Power button Press this button to turn on the system power. Press it again to turn off the power. Reviewing System Features 1-3 ! Suspend button Press this button to suspend system operation when you plan to be away from your computer for a short time. Press any key or move your mouse to resume system operation at the point where you stopped it.

An amber system unit power lamp indicates that the system is in a power-saving mode. If you have a VESA-compliant monitor, your monitor also goes into a power-saving mode. ! Reset button Use the reset button to restart your computer after it is powered on. You might need to restart your system if your system power is on and the computer is not running properly. Resetting your system can result in the loss of data. Press the reset button only when all other methods of restarting your computer fail. ! Power lamp The power lamp indicates whether system power is on or off. It also lets you know if the system is operating in a power-saving mode. A steady green lamp indicates that the power is on to all system components. An amber lamp indicates that the system is in Suspend mode with full-power reduction.

! Disk lamp A lit disk lamp indicates that the hard drive is active. The green lamp tells you that the hard drive is reading or writing data.



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Do not turn off the system unless absolutely necessary while the disk lamp is lit. To do so can damage your hard drive or data. 1-4 Reviewing System Features IR Window The IR (infrared) window is the system's IR port. The IR port supports two-way wireless communications. The interface uses infrared as the transmission medium instead of a traditional cable. The IR port lets you transfer files to or from portable devices such as laptops and personal digital assistant (PDA) products using application software supporting IrDA data transfer. With the addition of an IrDA software package, you can transfer data at speeds of up to 115 kilobytes per second (Kbps) and at distances up to 3 feet from the IR window. Diskette Drive A Use diskette drive A to copy data files to and from a diskette.

You can also use it as a bootable drive for loading and starting programs from a diskette. To prevent damage to your diskette drive and data, do not turn off the system or remove a diskette while the diskette drive busy lamp is lit. CD-ROM Drive Some models come with a 32X or 40X Max variable CD-ROM drive.

Use the CD-ROM drive to load and start programs from a compact disc (CD). You can also use the CD-ROM drive to play your audio CDs.

Note You can boot your system from the CD-ROM drive with a bootable CD. To enable the system to boot from the CD-ROM drive, see "Boot Menu" in Chapter 4. The CD-ROM drive operates at different speeds depending on whether the CD you are using contains data or music. This allows you to get your data faster and to see smoother animation and video. Reviewing System Features 1-5 DVD-ROM Drive Some models come with a 5X digital video disc (DVD)-ROM drive.

The drive offers many improvements over the standard CD-ROM technology, including superior video and audio playback, faster data access, and greater storage capacities. The DVD-ROM drive uses DVD technology to read DVD discs as well as standard audio and video CDs. PC Card Adapter If your system has a PC card adapter, you can add PC cards to the system. A PC card is inserted into a PC card slot much as a diskette is inserted in a diskette drive, but each type of PC card has a different function. One PC card adapter lets you add a number of capabilities to your system with a variety of PC cards. Tape Backup Unit Some systems come with a tape backup unit. If your system has a tape backup unit, you can use it to quickly back up all or part of your system's files to a high-capacity tape cartridge. Backup software helps you tailor the backup process to protect your files and applications. Files are compressed during the backup process to conserve space and to speed up the process. Zip Drive Some models come with a Zip® drive.

Use the Zip drive to back up work, archive old files, and transport your work. Store up to 100 MB of data on a 3 1/2-inch Zip disk. 1-6 Reviewing System Features Rear Features On the back of your computer, you'll find external connectors, power supply features, and expansion board slots. The following figures show these features. Rear features - desktop models A Expansion Slots B Network Board C Mouse Port D Printer Port E VGA Monitor Connector F Audio Connectors G USB Ports H Serial Port 2 I Keyboard Port J Serial Port 1 Reviewing System Features 1-7 Rear features - minitower models A LAN Connector B Audio Connectors C USB Ports D Serial Port 2 E Keyboard Port F Mouse Port G Serial Port H Printer Port I Expansion Slots J VGA Monitor Connector External Connectors External connectors let you attach peripheral devices, such as a monitor, keyboard, mouse, and printer to your system. Your system has the following external connectors: ! Mouse port Attach the mouse that comes with your computer to this port. The mouse port supports a PS/2-compatible mouse. Keyboard port Attach the keyboard that comes with your computer to the keyboard port. The keyboard port supports a personal system/2compatible (PS/2-compatible) 101-key or 104-key keyboard (in the U.S. and Canada) or a 102-key keyboard (in the United Kingdom and Germany) with a 6-pin mini DIN connector. ! 1-8 Reviewing System Features ! VGA monitor connector The system comes with an AGP board connected to the system board. The AGP board provides an external VGA connector. AGP boards available from NECC support an NEC MultiSync® monitor, NEC VistaScan™ monitor, or other video graphics array (VGA)-compatible monitor with a 15-pin connector. Attach the signal cable from your monitor to the VGA connector on the AGP board.

Printer port Use this port to connect a parallel printer with a 25-pin connector to the system. Serial ports (COM1 and COM2) Attach a serial device with a 9-pin connector to each serial port. Serial devices include a pointing device, serial printer, or a modem. Audio connectors The following connectors come integrated on the system board (see the following figures): -- Microphone in jack The microphone in jack lets you connect a microphone for recording audio information in your data system files. -- Line in jack The line in jack lets you connect a stereo audio device such as a stereo amplifier or a cassette or minidisc player for playback or recording.

-- Line out jack The line out jack allows you to connect an amplified output device, such as powered speakers, a stereo tape recorder, or an external amplifier for audio output. If you ordered speakers, use this jack to connect them. !!! Reviewing System Features 1-9 Audio connectors - desktop models A Line Out Jack B Microphone In jack C Line In Jack Audio connectors - minitower models A Line In Jack B Microphone In Jack C Line Out Jack 1-10 Reviewing System Features ! Universal Serial Bus ports The Universal Serial Bus (USB) ports allow you to add new plug and play serial devices without opening up the system. You simply plug the devices into the ports. The USB determines system resources for each peripheral and assigns them without user intervention. Up to 127 devices can be daisy chained to the USB ports. Fax/modem ports Some systems come with a 56-kilobytes per second (Kbps) fax/modem board. The fax/modem board allows the connection of a phone line to the computer for fax and data communications functions. Dual fax/modem ports let you use a telephone line for the fax/modem and your telephone. !! LAN connector The rear panel on minitower models contains one RJ-45-compatible port for connecting the system to an Ethernet local-area network (LAN).

Desktop models have a network board installed in a PCI slot. SCSI port Some systems come with a SCSI adapter board in an expansion slot on the rear panel. An Ultra-Wide SCSI interface on the board allows connection of up to 15 SCSI devices to the board.



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! Power Supply Features Your system has the following power supply features: ! Power supply fan The power supply fan cools system components and prevents them from overheating. Keep the area near the fan clear for proper ventilation. Voltage selector switch Sets the voltage for your system to 115 volts or 230 volts. ! Set the switch correctly for the voltage in your area. Most wall outlets in the United States and Canada are 115 volts. Outlets in Europe, Australia, and Asia (except Taiwan) are 230 volts. Taiwan uses 115-volt outlets.

! Power socket Connect your power cable to this socket. Reviewing System Features 1-11 Inside Features See the following figures for the location of features within the system. Feature descriptions follow. Inside the system - desktop models A System Board B AGP Board C Expansion Slots D Riser Board E Internal Device Slot F Accessible Device Slots 1-12 Reviewing System Features Inside the system - minitower models A Expansion Slots B Internal Device Slots C Riser Board D AGP Board E System Board F Accessible Device Slots System Board System memory, the processor, the AGP board, and the system battery reside on the system board. The system board also comes with an audio subsystem.

External connectors include two serial connectors, a parallel connector, two USB ports, keyboard and mouse ports, and external audio connectors. For information on these connectors, see "External Connectors" earlier in this chapter. The system board supports a diskette drive and up to four IDE devices such as IDE hard drives, an IDE CD-ROM drive, an IDE DVD-ROM drive, or an IDE Zip drive. Reviewing System Features 1-13 Riser Board Most of the cable connectors in the system reside on the riser board. Riser board connectors include: ! ! ! ! primary and secondary IDE connectors diskette drive connector front panel connector for lamp and infrared signals the NLX connector for the system board additional connectors including the CD Audio In, Modem In, WakeOn LAN connector, the minitower chassis intrusion connector (hardware monitor), speaker connector (minitower models), and fan connector (minitower models) the external LAN connector (minitower models) power connectors (on the back of the board) ! ! Expansion board connectors on the riser board are as follows: Desktop models ! ! ! one PCI connector one shared PCI/ISA connector one ISA connector Minitower models ! ! ! three PCI connectors one shared PCI/ISA connector one ISA connector.

AGP Board The system board supports the AGP (Accelerated Graphics Port) standard. All models come with an AGP board. AGP boards enhance graphics performance, particularly for 3-D applications. 1-14 Reviewing System Features Network Board Desktop models ship with a 3Com® network board installed in a PCI slot. This board is a 10/100Base-T Ethernet board. Storage Device Support In desktop models, four storage device slots accommodate up to three accessible devices and one internal hard drive. In minitower models, six storage device slots accommodate up to four accessible devices and two internal hard drives. Intellicase Chassis The NEC Intellicase chassis conforms to the NLX form factor. With the NLX form factor, the system has the following features: ! ! ! standardized chassis size and dimensions standardized system board size and dimensions riser board with an NLX connector for signal and power circuitry to keep the system board largely free of cabling a system board that installs along rails with a single securing latch for easy access. ! Stand The minitower system unit sits on a stand to prevent it from being tipped over.

This is a safety feature to prevent personal injury and equipment damage. Keep the system unit in the stand except when opening or upgrading the system. Place the system unit on the stand so the stand's tabs go into the slots in the bottom of the chassis. Slide the system unit forward to lock the tabs in the slots. Keep the system unit in the stand. The stand is designed to keep the unit from being tipped over. Reviewing System Features 1-15 Minitower chassis stand Speakers Some systems come with a pair of high-quality stereo speakers that you can arrange to suit your work environment. An AC adapter comes with the speakers if you ordered speakers. Set up the speakers with the AC adapter. Adjust the speaker volume by using the volume control on the front of the right speaker or by using the Windows sound software.

To bring up a volume control, double click the speaker icon on the taskbar (next to the system clock). Also use the software to balance the sound between the left and right speakers. 1-16 Reviewing System Features System Features Your computer hardware and software deliver the performance and technologies you need for all your challenging tasks today and into the future. Hardware The PowerMate 8100 Series includes the following hardware features: ! PC98 Compliance All the hardware in the system has been certified by Microsoft® to be PC98 compliant. Latest in Processor Technology The system comes with a Celeron™, Intel Pentium® II, or Intel Pentium III processor.

Some of these are fast, powerful processors that lend themselves to heavy-duty computational, graphical, and networking tasks. Audio on the System Board The system board comes with an audio subsystem. The audio chipset gives you a surround sound system for three-dimensional sound effects - much like a live performance! It also provides wavetable synthesis. (Wavetable synthesis uses actual recordings of real sound effects and musical instruments for a dynamic audio experience.) Sound Board Some systems come with the Creative® Labs Sound Blaster® Live!™ board.

This board produces superb three-dimensional sound with multiple voices. The board is upgradeable so you enhance your board with Creative Lab's latest innovations. Flashable ROM BIOS The system's ROM BIOS features system setup configuration, Plug and Play support, and flash support for easy and economical BIOS upgrades. System Memory Your computer comes with at least 32 MB of SDRAM and supports up to 384 MB. The system also provides ECC memory support. The system memory is made up of Dual In-Line Memory Module (DIMM) sticks. DIMMs have 168 pins and are non-parity. ! ! ! ! Reviewing System Features 1-17 DIMMs function as a single bank. They can be installed in your computer individually instead of in pairs. Any combination of DIMMs is supported.

DIMM speed should match the processor bus speed (66 MHz or 100 MHz). ! Motion Video Playback Controller Your motion video playback hardware gives you full-motion, fullscreen smooth-scaled video playback and supports Motion Picture Experts Group (MPEG) software. Power Management Options Power management options conserve energy and reduce power costs.



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! Software NECC provides a variety of applications and hardware utilities with your system to let you take advantage of your hardware capabilities. Preloaded Operating System The Microsoft® Windows NT®, Windows® 95 or Windows 98 operating system comes loaded on the system. NEC Select Install CD Install the software and documentation provided by NECC from the NEC Select Install CD. The NEC Select Install CD can also be used to restore any of the software and documentation, or to restore the entire operating system. Each item on the CD is selectable from a straightforward graphical interface.

Clear menu descriptions and the help screens guide you through each step, from the simplest application installation, to a complete rebuild of your hard drive. The following applications and utilities are provided on the NEC Select Install CD: ! Microsoft Windows NT, Windows 95, or Windows 98 operating system Microsoft Internet Explorer® Internet Explorer provides a top-notch browser with preloaded links for easy access to the world wide web.

Use Internet Explorer as well to access one of the many new browser-based utilities. ! 1-18 Reviewing System Features ! Intel LANDesk® Client Manager Use LANDesk software to track system information such as serial number, BIOS revision number, memory capacity, disk capacity, expansion board settings, and applications. Use LANDesk software for remote starts from a server computer using Wake-On LAN and remote reboot. NEC Desktop SNMP Agent Use the Simple Network Management Protocol (SNMP) Agent to monitor the features, configurations, and locations of computers in your network. Cheyenne Backup Use this utility to save and retrieve material that might otherwise be lost.

NEC Auto Backup Utility This utility automatically backs up the hard drive when hard drive failure is imminent. NEC Configuration Change Notification This utility indicates if there has been a change in the processor, main memory, or hard drive on a notification screen that appears when the operating system starts. NEC Security Use NEC Security to control access to serial ports, printer ports, and the diskette drive. NEC WebTelligent™ Manage computers in the network with NEC WebTelligent using an Internet browser of your choice. McAfee® VirusScan® Software Protect the system from viruses by running VirusScan.

!!!!!! The following online documentation is provided on the NEC Select Install CD: ! NEC Help Center The NEC Help Center is an online version of the printed user's guide. It provides extensive information about the PowerMate system. Healthy Environment This is an online version of the printed brochure, Setting up a Healthy Environment. Reviewing System Features 1-19 ! NEC Driver CD The NEC Driver CD contains a wide selection of drivers for hardware that is compatible with PowerMate series computers. These drivers are provided with the original manufacturer's installation wizards to ensure correct installation. Security The system has hardware, software, and mechanical security features that offer protection against unauthorized access to your system and data. The following security features are available with the system: ! Password security The BIOS Setup utility includes a feature that lets you set up either a user or administrator password, or both. The user password controls booting of the system and controls access to the Setup utility and the keyboard. (User access to the BIOS Setup utility is limited to a subset of all BIOS Setup parameters when a Supervisor password has been set.) The administrator password allows full access to the system and the BIOS.

The Unattended start security feature, when enabled, allows the system to boot but locks the keyboard until the user password is entered. This feature is grayed-out if no password has been set. ! NEC Security The NEC Security utility also provides password protection and lets you disable access to the diskette drive, COM ports, or printers. Windows network security features To learn more about the network security features available through the Windows operating system, refer to your Windows documentation or consult your system administrator. Chassis intrusion notification Whenever the chassis cover is removed, LANDesk Client Manager logs the incident and then reports it on screen the next time the system is rebooted. ! 1-20 Reviewing System Features ! Security slot The security slot on the back of the minitower chassis accepts a Kensington® Security Standard connector or other locking device. Secure the locking device to the security slot and to an immovable object to protect your system from theft. Locking tab The minitower system also has a locking tab on the rear of the chassis. The tab fits through a slot on the rear edge of the chassis cover when the cover is on. When a padlock is used in the tab, the system is physically protected from chassis intrusion.

! Reviewing System Features 1-21 2 Setting Up the System !!!!! Cable Connections Startup Shutdown Power-Saving Operation System Care More Information This chapter provides the information you need to set up and use the PowerMate 8100 Series computer. Some of the information provided includes cable connections, system startup procedures, system shutdown procedures, and system care. It also provides a matrix showing where to find additional information about the computer. Cable Connections In this section you will find information on setting up your system. After unpacking the system and placing the system unit on the stand, connect the system components as follows: Place the system unit in the stand before connecting any of the cables or powering on the system.

Note See the Quick Setup poster for diagrams showing most cable connections. ! Connect the keyboard and mouse cables. Use the icons on the rear of the system unit to identify the keyboard and mouse connectors. Connect the monitor cable to the VGA connector on the rear of the monitor and to the AGP port on the system unit. If the system comes with speakers, connect the cables (see the Quick Setup poster).

If the system comes with a fax/modem board, connect it to the telephone line as follows: -- Unplug the telephone from the telephone jack on the wall. -- Plug the telephone cable that comes with the system into the line jack on the system and into the telephone jack on the wall. -- Plug the cable on the telephone into the phone jack on the system. !!!!! Connect the network line to the RJ-45 connector on the rear of the system unit. See the network administrator for guidelines on configuring the system for network access. 2-2 Setting Up the System ! Connect the printer cable to the printer port on the rear of the system unit. Secure the cable with the screws provided. Connect the other end to the printer. Connect one end of the serial cable to one of the two serial ports on the rear of the computer.



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Secure the cable with the screws provided.

Connect the other end to the serial device. Connect one end of the USB cable to the USB port on the rear of the computer. Connect the other end to the USB device. See the documentation that comes with your device to connect additional USB devices. Connect one end of the SCSI cable to the SCSI connector at the rear of the system unit. Connect the other end of the cable to either of the SCSI connectors on the SCSI device. See the documentation that comes with your device for instructions on jumpering and terminating the device. Set the voltage switch correctly for your area. The correct setting for the U.S. and Canada is 115V. !!! Set the voltage switch correctly for your area. ! Connect the power cable to the system power socket at the rear of the system unit. Connect the other end to a surge protector (recommended) or a properly grounded wall outlet. NECC recommends connecting the power cable to a surge protector.

Setting Up the System 2-3 Startup Press the power button to start up your system. The power lamp lights green to indicate that the system is on. The NEC startup screen appears. At the bottom of this screen, messages like the following appear: Press <F2> key if you want to run Setup Press ESC to display POST Note These messages are part of your system's Power-On Self-Test (POST). Your computer is checking your hardware for any changes since the last startup. To see the messages displayed during POST, press ESC. If you want to go into the Setup Utility, press F2. One beep indicates that the system has successfully completed the poweron test. After about 5 seconds, Windows starts up. If a problem occurs, a series of beeps may sound. If this happens repeatedly after powering on, power off the system and turn to Chapter 6, "Solving System Problems." This chapter provides helpful hints on obvious system problems. Note If the system displays a message indicating that system settings have changed, run the BIOS Setup utility (see Chapter 3, "Configuring the System"). On systems loaded with the Windows NT® 4.0 operating system, press Ctrl Alt Del when prompted on-screen to do so.

The log-on box appears for entering a password. **Shutdown** Follow these steps to shut down (power off) your computer. 1. 2. 3. Save your work. See the documentation that comes with your application. Exit the application program. Make sure that the hard drive, diskette drive, and any other drives are not in use. A lit device lamp indicates that the device is in use.

2-4 Setting Up the System Wait until a program is finished running before powering off the system. Unless absolutely necessary, never power off the system when the system power lamp is amber or when either the hard drive lamp, diskette drive, or other device lamp is lit. Information on the device might be lost or damaged. 4. Click Start on the taskbar, then point to and click Shut Down.

Selecting Shut Down gives you several choices in the pop-up submenu. Select Shut down the computer, then click Yes or press Enter for shut down. A message appears informing you when it is safe to turn off your Note system. 5. 6.

Turn off power to your monitor. Power off the system by pressing the system unit power button. The system powers off after a 5- to 10-second delay. **Power-Saving Operation** If the system is running the Windows 95 or Windows 98 operating system, you can put it in Suspend mode (a power-saving state) by pressing the suspend button on the front of your unit. This is a convenient way of conserving energy when you are going to be away from your system for a short period of time. The system also goes into Suspend mode when the system has been inactive, if the power management has been enabled in BIOS, and an inactivity timeout has been enabled. The suspend button is below the power button and above the reset button. Take care to avoid pressing the power or reset buttons by accident. Accidentally pressing the power or reset buttons can result in the loss of data. When the system goes into Suspend mode, it saves data and system status and then shuts off power to all possible components.

Suspend mode lets you save power without first saving your work. **Setting Up the System 2-5** An amber power lamp indicates that the system is in Suspend mode. Press the suspend button, press a key, or move the mouse to resume system operation where you left off. **System Care** Your system is a durable, dependable computer built for heavy use. With protective measures and proper care, you can prevent problems and promote the successful operation and long life span of your computer. **Protecting Your System From Damage** There are several ways that you can protect your system from possible damage. NECC strongly recommends the following protective measures: ! The minitower system unit sits on a stand to prevent it from being tipped over. This is a safety feature to prevent personal injury and equipment damage. Keep the system unit in the stand. Connect a surge suppressor between your computer and a grounded wall outlet.

A surge suppressor protects your system from sudden transient increases and decreases in electrical power. Be sure to connect all peripherals, such as your monitor and printer, to the surge suppressor. The surge protector should be the only device that you plug into the wall outlet. !! Avoid repeated power-on cycles. These subject the system components to temperature variations and stress.

Disconnect your system from telephone and power lines when an electrical storm threatens. If you have a fax/modem, lightning can travel in on the phone line and damage both the fax/modem and the system unit. Lightning can also travel in on power lines and damage your monitor and system unit. Be sure that system power is off before you connect or disconnect a cable. Never make cable changes when the system power is on.

Doing so can damage the system and its peripherals. Use BIOS Setup utility options to protect against viruses (see "Security Menu" in Chapter 3). Use appropriate virus detection software regularly to protect your system from computer viruses. !!! **2-6 Setting Up the System** If you plan to use software programs other than NECC supplied software, NECC strongly recommends that you take the necessary steps, such as virus checks, to protect your system. ! Place your computer away from direct sunlight and extreme hot and cold temperatures. The recommended operating environment is from 50°F to 95°F (10°C to 35°C). The recommended non-operating environment (shipping or storage) is from 14°F to 158°F (-10°C to 70°C). ! After turning off power, wait about five seconds for the hard drive to spin down before you power on again. Be sure that nothing is placed on top of your system power cables. Prevent dust from entering your system by covering it when it is not in use.

!! Keeping Your System in Good Condition Maintain the condition of your system by periodically using the following general procedures.



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For safety, power off and unplug your system, monitor, and any external devices before cleaning them. ! Clean the outside of the computer with a soft clean cloth. You can remove stubborn stains with a cloth slightly dampened with a mild detergent. Never use a strong cleaner or solvent on any part of the system. ! Keep food and liquids away from your computer. Periodically clean the keyboard with a vacuum cleaner brush attachment. Do not use any liquid cleaners on the keyboard as they can damage the keyboard. If an object, such as a paper clip, falls into the keyboard, turn the keyboard over and gently shake it.

Setting Up the System 2-7 ! Clean the monitor screen with a glass cleaner and wipe it with a clean, lint-free cloth.

You may use wet/dry cleaning pads manufactured for monitor screens. Moving or Shipping Your System Use these steps to prepare your system for moving or shipping: 1. Back up the files on the hard drive to diskettes, Zip disks, or tape cartridges. Be sure to take precautions for storing and transporting Zip disks, diskettes, or tape cartridges so that they are not exposed to magnetic fields or electrical impulses. 2.

3. 4. 5. 6. Remove any diskette from the diskette drive.

If you have a CD in the CD-ROM drive, remove the CD. Turn off the system unit and any external options connected to it. Unplug the system unit power cable from the wall outlet or surge suppressor, then from the unit itself. Unplug any external options from the wall outlets or surge suppressor, and then disconnect them from the system unit. Pack the system components in the original shipping materials and cartons. If these are not available, be sure to use adequate packing materials to protect the components. To set up your system, follow the steps on the PowerMate 8100 Series Quick Setup poster that comes with the computer. More Information Once you have your system up and running, we suggest that you do the following: ! Install applications provided by NECC from the NEC Select Install CD. See "Setting Up a Healthy Work Environment" in Appendix A. Install any of your own applications.

See the documentation that comes with the application. ! ! 2-8 Setting Up the System ! Upgrade your system with more memory, a storage device, or a faster processor. See Chapter 5, "Installing Options." See the following quick reference chart to find information about using the computer. Quick Reference to Information About the Computer Information Installing the applications provided by NECC Installing the NEC Help Center online documentation or the Healthy Environment online brochure Uninstalling the NEC Help Center Basic information about the computer Where to Find It "Installing Applications" in Chapter 3 "Installing the NEC Help Center" in Chapter 3 "Uninstalling the NEC Help Center" in Chapter 3 System Tour in the online NEC Help Center or Chapter 1 Chapter 3 and Chapter 4 Appendix C Chapter 5 Chapter 7 Chapter 1 "LANDesk Client Manager" in Chapter 4 Chapter 7 "System Care" in Chapter 2 Chapter 6 Setting a password Playing a music CD (multimedia systems) Adding options Access the world wide web Protecting the system from viruses Using Desktop Management Interface Using support services Taking care of the system Troubleshooting tips Setting Up the System 2-9 3 Configuring the System ! ! ! ! ! Configuration Tools and Utilities BIOS Setup Utility Flash Utility NEC Select Install CD NEC Help Center Online Documentation NEC Driver CD Jumper Settings This chapter provides information on configuring your computer. It includes information about the BIOS Setup utility for configuring hardware and the system, the Flash utility for BIOS updates, the NEC Select Install CD for software reinstalls, the NEC Driver CD for installing optional drivers, and jumper settings for physically configuring devices in the system. See the following table for a quick guide to the utilities, tools, or procedures required in configuring the system. For detailed information about these and other tools, see the sections following the table. Configuration Tools and Utilities The following table lists ways you can configure the system, and the utility, tool, or procedure to use for the configuration. Note Also see the next chapter, "Managing System Resources," for ways to manage system resources and to configure the system remotely.

Configuration Tools and Utilities Configuration add or remove hardware (hard drive, diskette drive, CD-ROM drive, DVDROM drive, tape backup) base I/O address, changing BIOS, updating boot devices, determining boot order, changing configuring hardware DIMM memory, checking diskette drive, enabling DMI log/DMI event log, setting, configuring, viewing Method, Tool, or Utility BIOS Setup (Advanced menu) BIOS Setup (Advanced menu) FLASH utility BIOS Setup (Boot menu) BIOS Setup (Boot menu) BIOS Setup (Advanced menu) Jumper Settings BIOS Setup (Main menu) BIOS Setup (Advanced menu) BIOS Setup (Advanced menu) 3-2 Configuring the System Configuration Tools and Utilities Configuration drivers for NECC hardware, installing hard drive, configuring as master or slave, primary or secondary hard drive, reformatting hard drive, repartitioning hard drive, setting a pre-delay hard drive, subjecting to power management hardware, adding Healthy Environment (online document), installing IDE device, configured as primary or secondary device IDE device, configuring as master or slave inactivity timeout, setting IRQs, changing keyboard options L2 Cache ECC Support, enabling memory, checking NEC Help Center online documentation, installing NEC Help Center online documentation, uninstalling operating system, restoring parallel port, enabling, configuring Method, Tool, or Utility NEC Driver CD BIOS Setup (Advanced menu) NEC Select Install CD NEC Select Install CD BIOS Setup (Advanced menu) BIOS Setup (Power menu) BIOS Setup (Advanced menu) NEC Select Install CD BIOS Setup (Advanced menu) BIOS Setup (Advanced menu) Jumper Settings BIOS Setup (Power menu) BIOS Setup (Advanced menu) BIOS Setup (Advanced menu) BIOS Setup (Main menu) BIOS Setup (Main menu) NEC Select Install CD (see "Installing the NEC Help Center Online Documentation") see "Uninstalling the NEC Help Center" NEC Select Install CD BIOS Setup (Advanced menu) Configuring the System 3-3 Configuration Tools and Utilities Configuration password, setting or clearing (user, administrator, or both) Plug and Play, enabling power management, enabling, configuring processor speed, changing reminders to back up the system reminders to run virus scan serial ports, enabling software provided through NEC, installing time and date, setting upper memory for a legacy ISA device, reserving Wake-On LAN (boot the system from a remote server) video device, subjecting to power management Windows 95 or Windows 98 or Windows NT, restoring Method, Tool, or Utility BIOS Setup (Security menu) BIOS Setup (Advanced menu) BIOS Setup (Power menu) BIOS Setup (Maintenance menu) BIOS Setup (Boot menu) BIOS Setup (Boot menu) BIOS Setup (Advanced menu) NEC Select Install CD BIOS Setup (main menu) BIOS Setup (Advanced menu) BIOS Setup (Boot menu) BIOS Setup (Power menu) NEC Select Install CD BIOS Setup Utility The BIOS Setup utility program is used to configure the main components of your computer.



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Your system ships from the factory with the correct system parameters for your configuration. Unless you add optional hardware, you do not need to run the BIOS Setup utility to operate your system. However, you might wish to run the Setup utility to set features that customize your system, such as security features. 3-4 Configuring the System System configuration information is stored in nonvolatile memory.

A nonvolatile memory device retains its data when system power is turned off. Nonvolatile memory in your system is stored in a complementary metal-oxide semiconductor (CMOS) chip backed up by a battery on the system board. The battery supplies continuous power to CMOS memory and maintains configuration information when system power is off (see "Battery Replacement" in Chapter 6). NECC recommends that you print out or write down your current BIOS Setup parameters and store the information in a safe place. This lets you restore your system to the current parameters if you ever need to replace the battery.

How to Start BIOS Setup To start the BIOS Setup utility, follow these steps: 1. 2. Turn on or reboot the system. Press F2 as soon as you see this message: Escape to view boot, F2 to enter BIOS Setup. You have about five seconds to press F2 before the system boot continues. 3. Setup's Main Menu appears and looks similar to the following screen. Configuring the System 3-5 Setup Main menu How to Use BIOS Setup Use the keys shown on the bottom of the Setup menu to make your selections or exit the current menu. The following table describes the navigation keys. Navigation Keys Key F1 Esc Enter or arrow keys or arrow keys Function Provides help for the parameter field being displayed.

Exits the menu. Executes Command or brings up a submenu. Moves cursor up and down. Selects next menu. 3-6 Configuring the System Navigation Keys Key F9 F10 +/- Function Loads the Default Configuration values for this menu. Saves changes and Exits the BIOS Setup utility. Change values Menu items preceded by > contain a submenu of selectable fields for setting system parameters. To display a submenu, use the arrow keys to move the cursor to the submenu you want. Then press Enter. Maintenance Menu The Maintenance Menu only appears when the system board has been jumpered for Configure mode.

When the system is restarted in Configure mode, the BIOS Setup utility comes up displaying the Maintenance Menu. (The Main, Advanced, Power, Security, Boot, and Exit menus are also available when the system is in Configure mode.) Starting the system in Configure mode resets BIOS settings to their factory defaults. Before jumpering the system for Configure mode, write down any customized BIOS settings. When the system is started in Normal mode, press F2 to bring up the BIOS Setup utility.

Recustomize your BIOS settings. See the section, "Jumper Settings," for information on jumpering the system board for Configure mode, for instructions on changing the processor speed, and for clearing a password. Configuring the System 3-7 Maintenance Menu Items Menu Item Processor Speed Settings and Description 233 MHz, 266 MHz, 300 MHz, 333 MHz, 366 MHz, 350 MHz, 400 MHz, 450 MHz, 500 MHz, 600 MHz Sets processor speed. Clear All Passwords [Enter] Clears the User and Supervisor passwords. Press Enter to bring up dialog box asking for confirmation to clear passwords.

Main Menu The BIOS Setup utility usually comes up displaying the Main Menu. If BIOS is displaying another menu, choose the Main Menu by selecting Main in the legend bar. See "How to Start BIOS Setup" for a look at a typical Main Menu screen. Main Menu options are available by selecting submenus. Use the arrow keys to select a Main Menu option. Press Enter to display the submenu. Items with grayed-out text are not changeable from the submenu. Explanations of each Main Menu option and suboption appear in the following table. Main Menu Items Menu Item BIOS Version Settings (default is bold) and Description This field is read-only and cannot be changed from the BIOS Setup utility. Example: 4N4XL0X0.

86A.0000.D Processor Type This field is read-only and cannot be changed from the BIOS Setup utility. Example: Pentium II 3-8 Configuring the System Main Menu Items Menu Item Processor Speed Settings (default is bold) and Description This field is read-only and cannot be changed from the BIOS Setup utility.

Example: 233 MHz Cache RAM This field is read-only and cannot be changed from the BIOS Setup utility. Example: 512 KB System Memory This field is read-only and cannot be changed from the BIOS Setup utility. Example: 192 MB Memory Bank 0 Memory Bank 1 Memory Bank 2 These fields are read-only and cannot be changed from the BIOS Setup utility. Example: Memory Bank 0 128 MB SDRAM Memory Bank 1 64 MB SDRAM Memory Bank 2 Not Installed

English (US), Italiano, Espanol, Francais, Deutsch The default language used in the BIOS. ECC Configuration Non-ECC, ECC Turns error reporting on (ECC) or off (Non-ECC). This menu item is only displayed when ECC DIMMs are detected.

L2 Cache ECC Support Enabled, Disabled. This menu item is selectable if the system has a 233 MHz or 266 MHz processor; Enabled is the only choice when a faster processor is in use. Language Configuring the System 3-9 Main Menu Items Menu Item System Time Settings (default is bold) and Description Set system time in this field. Press Tab or Enter to move between hour, minute, and second fields. The clock keeps time even after the system power is turned off.

Example: 09:30:00 System Date Set system date in this field. Press Tab or Enter to move between month, date, and year fields. Example: 03/22/1999 (American) 22/03/1999 (European) Advanced Menu The Advanced Menu is a top-level menu in the BIOS Setup utility. Choose the Advanced Menu by selecting Advanced in the legend bar. Advanced Menu options are available by selecting submenus.

Use the arrow keys to select an Advanced Menu option. Press Enter to display the submenu. Items with grayed-out text are not changeable from the submenu.

Explanations of each Advanced Menu option and suboption appear in the following table. Setting items on this menu to incorrect values can cause your system to malfunction. 3-10 Configuring the System Advanced Menu Items Menu Item Plug and Play O/S Settings (default is bold) and Description No, Yes The default for systems running Windows NT operating system is No and for systems running Windows 95 operating system is Yes. With a No setting, BIOS configures all devices. With a Yes setting, the operating system configures any Plug and Play device not required when the system boots (presumes a Plug and Play operating system). Reset Configuration Data No, Yes A Yes setting clears the PCI/PnP configuration data stored in FLASH ROM when the system reboots. A Yes setting always reverts to No after the reboot.

Numlock Auto, On, Off Determines whether Numlock is on or off when the system is powered on.



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Auto sets Numlock to the same setting it had before the system was rebooted. **Peripheral Configuration** This menu changes dynamically as choices are made. For example, if Serial Port A is set to Enabled, additional choices appear for Base I/O address and interrupt. Dynamic submenu items are indented in this table. Enabled, Auto, Disabled Auto enables the device, but the BIOS does not place its resources unless the Plug and Play O/S option in BIOS is set to No. Base I/O Address 3F8, 2F8, 3E8, 2E8 An asterisk (*) displayed next to an address indicates a conflict with another device. This option only appears if Serial Port A is set to Enabled. Serial Port A Configuring the System 3-11 Advanced Menu Items Menu Item Interrupt Settings (default is bold) and Description IRQ3, IRQ4 An asterisk (*) displayed next to an interrupt indicates a conflict with another device. Only appears if Serial Port A is Enabled.

Serial Port B: Enabled, Auto, IrDA, Disabled The default setting for Serial Port B supports the hardware shipped in your system (i.e., if your system shipped with a fax/modem board, Serial Port B defaults to "Disabled"). Auto enables the device, but the BIOS does not place its resources unless the Plug and Play O/S option in BIOS is set to No. Base I/O Address 3F8, 2F8, 3E8, 2E8 An asterisk (*) displayed next to an address indicates a conflict with another device. Only appears if Serial Port A is Enabled. Interrupt IRQ3, IRQ4 An asterisk (*) displayed next to an interrupt indicates a conflict with another device. Only appears if Serial Port A is Enabled. Parallel Port Disabled, Enabled, Auto The parallel port device can be auto detected when Auto is selected. With Auto, the first free LPT port is assigned.

Auto enables the device, but the BIOS will not place its resources unless the Plug and Play OS field described previously is set to No. Mode Output only, Bi-directional, EPP, ECP Only appears if Parallel Port is Enabled. 3-12 Configuring the System Advanced Menu Items Menu Item Base I/O Address Settings (default is bold) and Description 278, 378, 3BC, 228 An asterisk (*) displayed next to an address indicates a conflict with another device. Only appears if Parallel Port is Enabled. Interrupt IRQ7, IRQ5 An asterisk (*) displayed next to an interrupt indicates a conflict with another device. This option only appears if Parallel Port is set to Enabled. An interrupt set to IRQ5 in a multimedia system might conflict with the audio subsystem settings. DMA Channel DMA1, DMA3 DMA not displayed when Mode is Bi-directional The DMA field is only displayed when the Parallel Port field is set to Enabled, and the Mode field is set to ECP. Audio Disabled, Enabled Select Disabled if an audio board is installed. Hardware Monitor Disabled, Enabled Enables chassis intrusion monitoring.

Legacy USB Support IDE Configuration IDE Controller Disabled, Primary, Secondary, Both This field enables the primary, secondary, or both interface connectors on the riser board. Disabled, Enabled Configuring the System 3-13 Advanced Menu Items Menu Item Hard Disk Pre-Delay Settings (default is bold) and Description Disabled, 3 seconds, 6 seconds, 9 seconds, 12 seconds, 15 seconds, 21 seconds, 30 seconds The hard disk pre-delay gives the hard drive time to spin up before the system boots. Set a hard disk pre-delay if your hard drive needs more time to spin up. Primary IDE Master Primary IDE Slave Secondary IDE Master Secondary IDE Slave Device type, None Device type, None Device type, None Device type, None Each device menu item displays the Hard drive or CD-ROM identifier if a device is installed. If you install a hard drive that does not feature auto IDE type detection or your IDE hard drive was formatted on another system with parameters different from those reported by the drive, enter a parameter for each of the fields in the device submenu. Bring up device submenu by pressing Enter. Type None, CD-ROM, IDE Removable, User, ATAPI Removable, Auto Defaults to Disabled and changes at boot time based on auto-detection. When set to Auto, the values for Cylinders, Heads, Sectors, and Maximum Capacity are displayed but are read only. When set to Auto, the BIOS detects what the drive is capable of, not the translation mechanism that was used to format the drive. If a drive is run in a mode other than the mode in which it was partitioned and formatted, unpredictable results may occur, including data loss.

Cylinders When Type is Auto, value in the Cylinders field is auto-detected and field is read only. 3-14 Configuring the System Advanced Menu Items Menu Item Heads Sectors Maximum Capacity Settings (default is bold) and Description When Type is Auto, value in Heads field is autodetected and field is read only. When Type is Auto, value in Sectors field is autodetected and field is read only. Displays capacity in MB. When Type is set to Auto, the value in the Maximum Capacity field is computed from the auto-detected values in Cylinders, Heads, and Sectors, and the field is read only.

Multi-Sector Transfers Disabled 2 sectors 4 sectors 8 sectors 16 sectors When Type is set to Auto, the value in the MultiSector Transfers field is auto-detected and the field is read only. LBA Mode Control Disabled, Enabled When Enabled is selected, it causes logical block addressing to be used in place of cylinders, heads, and sectors. When Type is set to Auto, the value in the LBA Mode Control field is auto-detected and the field is read only. Transfer Mode Standard Fast PIO Mode 1 Fast PIO Mode 2 Fast PIO Mode 3 Fast PIO Mode 4 FPIO3 & Bus Mastering FPIO4 & Bus Mastering When Type is set to Auto, the value in the Transfer Mode field is auto-detected and the field is read only. Configuring the System 3-15 Advanced Menu Items Menu Item Ultra DMA Settings (default is bold) and Description Disabled, Mode 0, Mode 1, Mode 2 When Type is set to Auto, the value in the Ultra DMA field is auto-detected and the field is read only.

Floppy Options Floppy disk controller Bring up submenu by pressing Enter. Enabled, Disabled This field enables the diskette drive interface connector on the riser board. Diskette A: Disabled 360 KB 5 1/4" 1.2 MB 5 1/4" 720 KB 3 1/2" 1.44/1.25 MB 3 1/2" 2.88 MB 3 1/2" Disabled, Enabled Set the field to Enabled to write-protect diskettes. DMI Event Logging Event log capacity Bring up the submenu by pressing Enter. This field is read-only and cannot be changed from the BIOS Setup utility. Example: Space Available Event log validity This field is read-only and cannot be changed from the BIOS Setup utility.

Example: Valid View DMI Event log [Enter] Press Enter to view the DMI Event log. Clear all DMI event logs No, Yes Yes clears all DMI event logs upon rebooting. Floppy Write Protect 3-16 Configuring the System Advanced Menu Items Menu Item Event logging Settings (default is bold) and Description Disabled, Enabled Enabled allows the logging of DMI events.



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