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You can read the recommendations in the user guide, the technical guide or the installation guide for NEC POWERMATE VE. You'll find the answers to all your questions on the NEC POWERMATE VE 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 VE
User guide NEC POWERMATE VE
Operating instructions NEC POWERMATE VE
Instructions for use NEC POWERMATE VE
Instruction manual NEC POWERMATE VE

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Manual abstract:

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Rights Reserved v Preface This addendum to the PowerMate® Ve Series Service and Reference Manual (document number 819-181516-000) provides updated information on the computer's hardware for users who need an overview of system design. @@@@Section 2 -- Setup and Installation, includes procedures for installing application software and drivers and performing system backups. This section also provides information not available when the PowerMate Ve ETC Series User's Guide was printed.

Section 3 -- Illustrated Parts Breakdown, provides an exploded view diagram of the system. Also included are updated parts lists for field-replaceable parts. iii Contents Preface...

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3-5 Section 1 Technical Information This section describes hardware features and components that are specific to the PowerMate® Ve ETC Series of NEC PowerMate Ve Series computers. For information that is general to all PowerMate Ve Series computers, see the PowerMate Ve Series Service and Reference Manual (part number 819-181528-000). SYSTEM OVERVIEW PowerMate Ve ETC Series computers are configured with a different system board and come with a network interface board installed as standard equipment in one of the system unit expansion slots. PowerMate Ve ETC Series computers include the configurations identified in Table 1-1. Table 1-1 Model Number ET-1830-24813E (PowerMate V133e) PowerMate Ve ETC Series System Configurations Processor 133-MHz ® Intel ® Pentium Multimedia No System Memory 16 MB Video Memory 1 MB fast video dynamic random-access memory(video DRAM) 1 MB video DRAM 1 MB video DRAM 1 MB video DRAM Hard Disk 1.2-GB IDE (WDAC21200) ET-1830-24813CE (PowerMate V133e) ET-1860-24813E (PowerMate V133e) ET-1860-24813CE (PowerMate V166e) 133-MHz Intel Pentium 166-MHz Intel Pentium 133-MHz Intel Pentium Yes 16 MB 1.2-GB IDE

(WDAC21200) 1.2-GB IDE (WDAC21200) 1.2-GB IDE (WDAC21200) No 16 MB Yes 16 MB Multimedia systems come with audio components integrated on the system board. Multimedia systems also include an eight-speed CD-ROM reader installed in the system unit, 8-watt speakers, and a microphone.

1-2 Technical Information SIMM UPGRADE PowerMate Ve ETC Series system configurations come with 16 MB of main system memory. Four sockets on the system board support up to 128 MB of high-speed memory using the following industry-standard, tin-plated, single in-line memory modules (SIMMs): NOTE: You may install 60-ns, parity or nonparity, extended data output (EDO) SIMMs into the SIMM sockets. T 1-MB by 32- or 36-bit (4-MB stick) T 2-MB by 32- or 36-bit (8-MB stick) T 4-MB by 32- or 36-bit (16-MB stick) T 8-MB by 32- or 36-bit (32-MB stick). CAUTION: To avoid corrosion between different metals, only use tin-plated SIMM sticks. The system board can use 64-MB SIMMs (16-MB by 32- or 36-bit), but these SIMMs are not supported by NECCSD for the PowerMate Ve ETC Series.

Performing Memory Upgrades Upgrade system memory as follows: T locate memory sockets on system board T check installed system memory T install SIMMs. *Locating SIMM Sockets.* Remove the system unit cover and locate the six SIMM sockets on the system board (see Section 3 of the PowerMate Ve Series Service and Reference Manual). If any cables block access to the SIMM sockets, label and disconnect them. If any boards block access to the sockets, remove them.

Checking System Memory Use Table 1-2 to check the memory installed in the system and determine the SIMM configuration needed to increase memory. *Technical Information 1-3* NOTE: SIMM memory must be installed in pairs of the same memory type. Table 1-2 Total Memory 16 MB 16 MB* 24 MB 24 MB 32 MB 32 MB 40 MB 40 MB 48 MB 48 MB 64 MB 64 MB 72 MB 72 MB 80 MB 80 MB 96 MB 96 MB 128 MB SIMM 1 4 MB 8 MB 4 MB 8 MB 8 MB 16 MB 4 MB 16 MB 8 MB 16 MB 16 MB 32 MB 32 MB 4 MB 8 MB 32 MB 16 MB 32 MB 32 MB Recommended Memory Upgrade Path Bank 0 SIMM 2 4 MB 8 MB 4 MB 8 MB 8 MB 16 MB 4 MB 16 MB 8 MB 16 MB 16 MB 32 MB 32 MB 4 MB 8 MB 32 MB 16 MB 32 MB 32 MB SIMM 3 4 MB Empty 8 MB 4 MB 8 MB Empty 16 MB 4 MB 16 MB 8 MB 16 MB Empty 4 MB 32 MB 32 MB 8 MB 32 MB 16 MB 32 MB Bank 1 SIMM 4 4 MB Empty 8 MB 4 MB 8 MB Empty 16 MB 4 MB 16 MB 8 MB 16 MB Empty 4 MB 32 MB 32 MB 8 MB 32 MB 16 MB 32 MB * = Standard configuration. Installing SIMMS After determining the system memory upgrade path, install SIMMs using the installation procedure provided in Section 3 of the PowerMate Ve Series Service and Reference Manual.



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1-4 Technical Information INTERRUPT CONTROLLER The interrupt controller operates as an interrupt manager for the entire AT system environment. The interrupt levels are described in Table 1-3. Access to the connectors is provided at the rear of the system unit. (25.4 mm) 5.75 in.

(146.0 mm) 4.00 in. (101.6 mm) 1.3 lb (589.4) Data Transfer Rate (buffer to disk) Data Transfer Rate (buffer to host) Start/Stop Cycles Buffer Size Interface 45.4 MB/s maximum 16.6 MB/s, Mode 4 40,000 of these connectors (depending on the type of network). Figure 3-1 provides the illustrated parts breakdown.

These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures. T Reorient or relocate the receiving antenna.

T Increase the separation between the equipment and receiver. T Connect the equipment to an outlet on a circuit different from the one to which the receiver is connected. Use shielded and properly grounded I/O and power cables to ensure compliance of this unit to the specified limits of the rules. (For Canadian Use Only) This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations. Cet appareil numérique de la classe B respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

BATTERY REPLACEMENT A lithium battery in your computer maintains system configuration information. In the event that the battery fails to maintain system configuration information, NEC recommends that you replace the battery. See Chapter 4 in the PowerMate Ve Series Service and Reference Manual for battery replacement information. **WARNING:** There is a danger of explosion if the battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer. The nickel-cadmium or nickel metal-hydrate batteries must be collected, recycled, or disposed of in an environmentally-approved manner. The incineration, landfilling, or mixing of batteries with the municipal solid waste stream is prohibited by law in most areas. Return batteries to a federal or state approved battery recycler. This may be where you purchased the battery or a local seller of automotive batteries. In MINNESOTA, call 1-800-225-PRBA if further disposal information is required.

Contact your local waste management officials for other information regarding the environmentally sound collection, recycling, and disposal of the batteries.



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