POWERMATE® 8100 SERIES

The Ultimate Business Computers Featuring Pentium® II Technology

NEC has raised the standard for corporate computing solutions even higher—with the PowerMate 8100 Series. These systems give your business the ideal combination of advanced desktop performance coupled with complete desktop manageability, ultimately reducing your Total Cost of Ownership. The 8100 Series features a 3Com® 10/100 Ethernet with Wake-On LAN support, blazing 100MHz SDRAM memory, and is powered by Intel® Pentium II processors in speeds of up to 450MHz, for the best performance in a Windows® 95 or Windows NT® Workstation 4.0 PC. The PowerMate 8100 Series features

NEC MagicEye™ technology, which monitors the system for potential problems and maximizes user up-time. Management is made even easier and more comprehensive with Intel LANDesk® Client Manager, for remote management over a network. The PowerMate 8100 Series' Open-Standards DMI features remote manageability support for popular network systems management applications, including Wake-On LAN, which allows easy access to the system during off-peak hours. And the advanced chassis design makes servicing and upgrading a snap. For a system powerful enough to bridge the gap between the M.I.S. department and the corporate desktop—choose the PowerMate 8100 Series with Pentium II technology.

NEC

POWERMATE® 8100 SERIES TECHNICAL SPECIFICATIONS

MODELS

NEC NOW — With NEC NOW, you can choose from a variety of processor speeds, main memory sizes, hard disk drive capacities and network cards. Additional options include audio, Accelerated Graphics Port (AGP) graphics, CD-ROM, removable storage, and fax modem. Each system comes standard with NEC's full software and hardware manageability suite.

Minimum Configuration — Single 333MHz Intel® Celeron™ processor, 32MB RAM, 4.3GB Ultra DMA 33 EIDE HD, AGP graphics, onboard 16-bit audio, 3Com® 3C905 Ethernet, diskette drive, keyboard, mouse, Microsoft® Windows® 95

PROCESSOR & MEMORY

Processor — Single Intel Celeron processor at 333MHz (8100-333A) or Single Intel Pentium® II processor at 350MHz (8100-350), 400MHz (8100-400), or 450MHz (8100-450)

Primary Cache (L1) — 32KB integrated on processor

Secondary Cache (L2) — Intel Celeron processor: 128KB inegrated on processor
Intel Pentium II processor: 512KB BSRAM on S.E.C. (single edge contact) cartridge, 4-way set associative

Main Memory — 32MB minimum, 384MB maximum 100MHz SDRAM

Memory Sockets — Three 168 pin card edge DIMM sockets (can be populated in any order and in any combination)

Flash ROM — 4Mbit

Bus Architecture — PCI/ISA; host bus operating at 100MHz (FSB)

Chipset — Intel 440BX

STORAGE

Diskette Drive — 1.44MB standard

Hard Drive — 4.3GB, 6.4GB, 8.4GB or 14.4GB (7200rpm) Ultra DMA 33 Enhanced IDE Drive, and 4.5GB, or 9.1GB Ultra Wide SCSI with Adaptec 2940UW SCSI controller.

Optional CD-ROM — 32X maximum variable-speed ATAPI Drive

Optional Removable Storage — Iomega ZIP 100MB ATAPI Drive

Optional Tape Backup — Seagate Travan 4, 8GB Tape Backup (STT-8000)

GRAPHICS

PERFORMANCE 3-D AGP — Evans & Sutherland AccelSTAR™ II Permedia 2 based AGP graphics accelerator. OpenGL drivers along with Direct 3-D and Heidi support.

Graphics Memory — 8MB SGRAM

Maximum Resolution — 1280 x 1024 x 32-bit (true color, 16.7 million colors); 1600 x 1200 x 16-bit (65K colors)

BUSINESS AGP — ATI XPERT@Work™ AGP 2X, 64-bit graphics accelerator 2-D and 3-D controller (Rage Pro chip)

Graphics Memory — 4MB SGRAM standard, upgradeable to 8MB SGRAM

Maximum Resolution — 1600 x 1200 x 24-bit (16.7 million colors) with 8MB

STANDARD AGP — ATI Rage IIC graphics accelerator

Graphics Memory — 4MB DRAM

Maximum Resolution — 1280 x 1024 x 32-bit (true color, 16.7 million colors)

INPUT/OUTPUT

Network Interface — 3Com 3C905-TX-W 10/100 Ethernet with Wake-On LAN support (integrated on riser card on minitower configurations; NIC on desktop configurations). Optional Intel PRO/100 NIC

Disk Interface — 32-bit PCI bus mastering IDE interface. Support for ATA-33 (Ultra DMA), PIO Mode 4, and ATAPI devices. Dual channels support up to four PCI IDE devices

I/O Connectors — Two serial: DB9 RS-232C 16550 buffered; one parallel: DB25, ECP/EPP; two USB ports; one video: DB15 (on graphics controller card); three audio ports: microphone, line-out, line-in; one RJ45 Ethernet connector

Infrared — IrDA infrared data transfer capability

Keyboard — Enhanced ergonomic keyboard: 104 keys, 12 function keys with palm rest, 6 pin mini DIN connector

Mouse — Microsoft IntelliMouse®

16-bit Stereo Audio — Onboard Crystal 4235 audio; Sound Blaster, Windows Sound System, and MPU401 support

Optional Modem — V.90 U.S. Robotics® 56Kbps* data/fax

Optional Speakers — 9 Watt ACS90R external amplified speakers

Optional PC Card Adapter — SCM PC Card Adapter X2P

EXPANSION

NEC IntelliCase — NEC's easy-to-service minitower NLX chassis design

Power Supply — 200 Watt, 115V/220V switch selectable

MINITOWER

Bays — 6 total: 1 external 3.5" (with diskette drive), 3 external 5.25", and 2 internal 3.5" (1 with hard drive)

Expansion Slots — 6 total: 3 PCI, 1 ISA, 1 PCI/ISA, 1 AGP

Dimensions — HxWxD: 17.63" (448 mm) x 8.5" (216 mm) x 17.88" (454 mm), not including stand.
Weight: 32 lb. minimum configuration

DESKTOP

Bays — 3 total: 1 external 3.5" (with diskette drive), 1 external 5.25" and 1 internal 3.5" (1 with hard drive)

Expansion Slots — 2 total: 1 PCI, 1 PCI/ISA

Dimensions — HxWxD: 3.6" (91mm) x 15.5" (394mm) x 14.5" (368mm)
Weight: 32lb. minimum configuration

POWER MANAGEMENT

APM/ACPI — Advanced Power Management 1.2 with support for IDE drive power down, VESA video power down, inactivity timer, and auto start. ACPI Ready.

SYSTEM MANAGEMENT

Ease-of-Use — Plug-N-Play compliant, PCI version 2.1, NEC Select Install CD

BIOS — DMI 2.0 compliant, SM (System Management) BIOS 2.1

Desktop Management — Intel LANDesk® Client Manager software for remote systems management, alerting, and asset control.

Health Monitoring — NEC MagicEye™ technology for system health monitoring of temperature, voltage, chassis intrusion alert and S.M.A.R.T. hard drive fault detection.

Virus Protection — McAfee® VirusScan™ software

Data Protection — Cheyenne Backup Client software[1] providing proactive data backup prior to hard drive failure detection. Protection of unauthorized data access via disabling/enabling of diskette drive, and serial/parallel ports.

Security — User authentication, system identification, system configuration control, system log-in events tracking, and Kensington® Security standard connector.

OPERATING SYSTEM SOFTWARE

Operating System — Microsoft Windows NT® Workstation 4.0, Windows 95, or Windows 98 factory installed on the hard drive. Tested and certified for Novell® Netware® Windows NT Workstation 4.0, Windows 95, or Windows 98. Microsoft PC97 certified.

SERVICE & SUPPORT

Warranty — Three year limited warranty with first year on-site. 7 x 24 toll-free hardware technical support in USA and Canada for warranty period. 90-day free software support. Dedicated corporate technical support line.

Warranty Plus — Optional extended warranty program with three year on-site service and next business day response.

Certain restrictions apply. To obtain a free copy of our limited warranty, call 1-800-632-4525, or write to NEC CSD, Attn: Warranty Department, 8285 West 3500 South, Magna, UT 84044, or see your nearest authorized reseller.

COMPLIANCE

General — Year 2000 compliant (see www.nec-computers.com for details)

Domestic — FCC CFR 47 Part 15, Subpart B
UL 1950 3rd Edition

Canadian — C-UL C22.2 No. 950-95
ICES-003 Issue 2, Revision 1

European — CE EMC Directive 89/336 EEC
EN55022:1993 Class B
EN50082-1:1997
CE LVD Directive 73/23 EEC
EN60950
Meets all requirements in European Waste Regulation Ordinance for packaging and scrap.
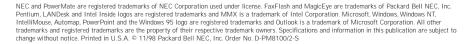
[1] Only available with Microsoft Windows 95

* Download speeds are limited to 53Kbps. Actual speeds may vary depending on line conditions. Uploads travel at speeds up to 33.6Kbps. The K56flex protocol is designed only to allow faster downloads from K56flex-compliant digital sources. See www.Lucent.com/micro/K56flex/. Fax modems send at 9600Kbps to standard fax machines and at up to 14.4Kbps to other computer systems with fax capabilities. Compatible service provider required for high-speed downloads.
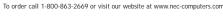
To order call 1-800-863-2669 or visit our website at www.nec-computers.com

Designed for Microsoft® Windows NT® Windows 95

yes NetWare.

MMX pentium® II

THREE YEAR WARRANTY

Genuine Microsoft Products

intel inside celeron™ PROCESSOR

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