

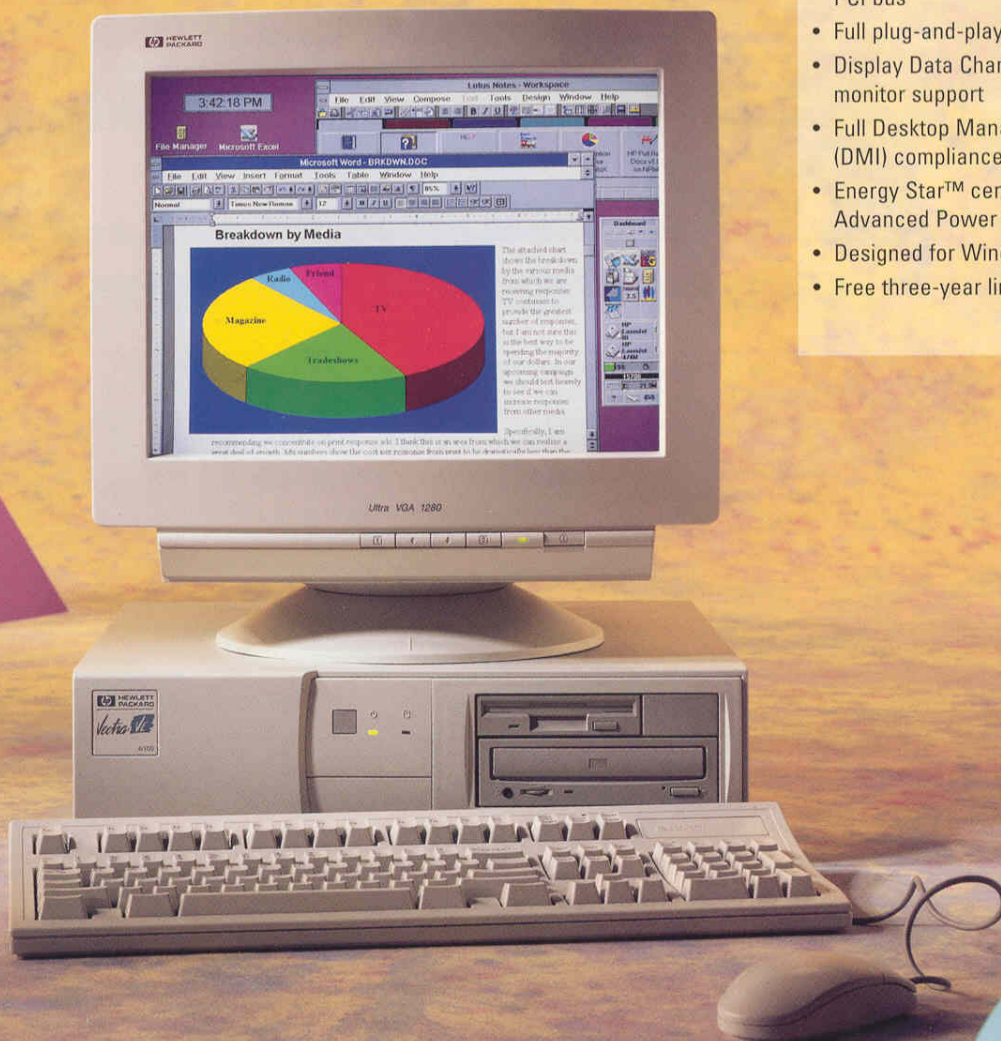
## HP Vectra VE 486 PC

### Technical Data

### The Best-Value 486 PCs

#### PCs that Deliver

- 486 DX2 50-MHz, DX2 66-MHz, or DX4 100-MHz processor
- Fast 64-bit graphics accelerator on the PCI bus
- Enhanced-IDE controller on the PCI bus
- Full plug-and-play capability
- Display Data Channel (DDC) monitor support
- Full Desktop Management Interface (DMI) compliance
- Energy Star™ certification with Advanced Power Management
- Designed for Windows 95
- Free three-year limited warranty



## Standard Features

### Feature-Rich 486 PCs that Deliver Exceptional Value

If you're looking for PCs that can meet the demands of mainstream corporate computing and are still easy on your budget, you may feel lost in the Pentium™ shuffle. But don't give up—Hewlett-Packard has just introduced the *new* HP Vectra VE 486 PCs. These PCs offer 486 DX2 50-, DX2 66-,

and DX4 100-MHz processors, plus advanced PCI performance.

The HP Vectra VE 486 PCs may be budget-conscious, but they're rich in performance and features. Check them out: You'll find a PCI bus for exceptionally fast disk access; PCI slots for fast network cards and video accelerators; an optional 256-KB second-level cache; a 64-bit graphics accelerator for exceptionally fast graphics

performance; and Enhanced-IDE drives that further boost performance and make it easy to install IDE CD-ROM and tape drives. With affordable prices and features like these—plus HP's renowned quality, reliability, and support—it's no surprise that we outscored every other vendor in the 1994 J.D. Power and Associates Desktop PC Customer Satisfaction Study.

PC System Features	
CPU	<ul style="list-style-type: none"> <li>• 486 DX2 50-, DX2 66-, and DX4 100-MHz processors</li> <li>• ZIF socket upgrade for P24T</li> </ul>
Package	<ul style="list-style-type: none"> <li>• Mid-size desktop</li> <li>• HP Keyboard included</li> <li>• HP Mouse included (except with Model 1)</li> </ul>
Memory	<ul style="list-style-type: none"> <li>• 4 or 8 MB of RAM standard, expandable to 64 MB (two SIMM slots total)</li> </ul>
Cache	<ul style="list-style-type: none"> <li>• 16-KB cache standard; 256-KB second-level, write-back cache optional</li> </ul>
Mass storage shelves	<ul style="list-style-type: none"> <li>• <b>Four shelves:</b> <ul style="list-style-type: none"> <li>– One front-accessible with standard, third-height 3.5-inch floppy drive preinstalled</li> <li>– One front-accessible half-height 5.25-inch for CD-ROM drive or tape backup</li> <li>– One internal third-height for 3.5-inch hard disk drive</li> <li>– One internal half-height for additional 3.5-inch device (such as a second hard disk)</li> </ul> </li> </ul>
Accessory slots	<ul style="list-style-type: none"> <li>• <b>Four slots:</b> <ul style="list-style-type: none"> <li>– One full-length ISA</li> <li>– One half-length ISA</li> <li>– One full-length PCI or ISA</li> <li>– One full-length PCI</li> </ul> </li> </ul>
Floppy disk drive	<ul style="list-style-type: none"> <li>• Third-height, 3.5-inch, 1.44-MB floppy drive installed</li> </ul>
Hard disk drives	<ul style="list-style-type: none"> <li>• 420- and 840-MB Ultra High-Performance IDE</li> </ul>
Hard disk controller	<ul style="list-style-type: none"> <li>• Dual-channel Enhanced-IDE controller on PCI bus</li> </ul>
Built-in I/O	<ul style="list-style-type: none"> <li>• Two 9-pin serial ports (16550 UART)</li> <li>• One 25-pin parallel port (ECP/EPP bi-directional Centronics supporting IEEE 1284)</li> <li>• Mini-DIN keyboard and mouse ports</li> <li>• 15-pin VGA connector</li> </ul>

## 64-bit PCI Graphics Blast Through Windows

Video Subsystem	
On-board video	<ul style="list-style-type: none"> <li>• S3 Trio64 integrated graphics accelerator on the PCI bus</li> </ul>
Video memory	<ul style="list-style-type: none"> <li>• 1 MB of video DRAM standard (32-bit access), upgradable to 2 MB (64-bit access)</li> </ul>
Preloaded drivers <sup>1</sup>	<ul style="list-style-type: none"> <li>• Windows for Workgroups 3.11</li> </ul>
Resolutions	<ul style="list-style-type: none"> <li>• Up to 1280x1024x256 colors in non-interlaced resolutions</li> <li>• Ergonomic modes in all resolutions</li> </ul>

<sup>1</sup>Windows NT 3.1 and OS/2® 2.1 drivers available on HP Bulletin Board Service (BBS). Windows NT 3.5 and OS/2 Warp drivers included with operating system.



## Designed from Inside Out to Make Your Life Easy

Features for Trouble-Free Personal Computing	
<b>Desktop Management Interface (DMI)</b>	<ul style="list-style-type: none"> <li>Fully DMI-compliant</li> <li>DMI software preloaded</li> </ul>
<b>Compatibility testing</b>	<ul style="list-style-type: none"> <li>Novell® NetWare® Workstation</li> <li>Windows for Workgroups</li> <li>Microsoft® Compatibility Listed for all operating systems, including Windows 95 and Windows NT 3.5</li> <li>IBM Certified: OS/2 (2.11 and Warp)</li> <li>Major network cards</li> </ul>
<b>Ergonomic/environmental design</b>	<ul style="list-style-type: none"> <li>Low-noise, variable-speed fan</li> <li>EPA Energy Star-certified system and displays</li> <li>Ergonomic video modes supporting non-interlaced resolutions up to 1280x1024</li> <li>Advanced Power Management works under MS-DOS® and Windows to reduce power consumption</li> <li>CFC-free; single plastic for easy recycling</li> </ul>
<b>Preinstalled software<sup>1</sup></b>	<ul style="list-style-type: none"> <li>Windows for Workgroups 3.11</li> <li>Windows 95 (when available)</li> <li>MS-DOS 6.22</li> <li><b>Utilities:</b> <ul style="list-style-type: none"> <li>Dashboard 2.0</li> <li>HP User Tool</li> <li>Plug-and-Play</li> <li>Advanced Power Management</li> <li>DMI demo</li> <li>Discover Your HP Vectra</li> </ul> </li> </ul>
<b>Ease of setup and service</b>	<ul style="list-style-type: none"> <li>Flash BIOS for easy upgrades</li> <li>Snap on/off cover, no screws for easy access to internal components</li> <li>Free 3-year limited warranty (1-year on-site, next-business-day; 2-year carry-in)</li> </ul>
<b>Security</b>	<ul style="list-style-type: none"> <li>User password to access PC, lock keyboard/mouse, protect user settings</li> <li>Administrator password to access PC</li> <li>Chassis keylock</li> <li>Hard and floppy drive enable/disable</li> </ul>

<sup>1</sup> Hard disk model.

## Accessories to Help Build the Right Solution for You

Optional Accessories	
<b>Memory upgrades</b>	<ul style="list-style-type: none"> <li>64-MB maximum memory</li> <li>4-MB, 32-bit, 70-ns SIMM (D2690A)</li> <li>8-MB, 32-bit, 70-ns SIMM (D2691A)</li> <li>16-MB, 36-bit, 70-ns SIMM (D2297A)</li> <li>32-MB, 36-bit, 70-ns SIMM (D2298A)</li> </ul>
<b>Cache upgrade</b>	<ul style="list-style-type: none"> <li>256-KB Cache Memory Upgrade Kit (D2465A)</li> </ul>
<b>Data storage</b>	<ul style="list-style-type: none"> <li>540-MB IDE hard disk drive (D2389A)</li> <li>HP double-speed IDE CD-ROM drive (D2889A)</li> </ul>
<b>Video upgrade</b>	<ul style="list-style-type: none"> <li>1-MB, 60-ns DRAM upgrade kit (D3500A)</li> </ul>
<b>Video monitors</b>	<ul style="list-style-type: none"> <li>Full range of standard and ergonomic HP video monitors</li> </ul>
<b>LAN accessories</b>	<ul style="list-style-type: none"> <li>HP PC LAN Adapter NC/16 TP (J2405A; J2406A/6-pack)</li> <li>HP PC LAN Adapter/16 TP Plus (27247B; 27269B/6-pack)</li> <li>HP PC LAN Adapter/16 TL Plus (27252A)</li> <li>HP 10/100VG Selectable ISA Adapter (J2573A)</li> </ul>
<b>Processor upgrades</b>	<ul style="list-style-type: none"> <li>P24T processors (e.g., Intel Pentium OverDrive™)</li> </ul>
<b>Setup accessories</b>	<ul style="list-style-type: none"> <li>HP Vectra VE 486 PC Series User Manual (D3490A)</li> </ul>



## Configurations and Models

HP Vectra VE PC Configuration and Models				
Name	Model	Product Number*	Memory	Hard Disk/Controller
HP Vectra VE 4/50	M1	D3491A	4MB	—
HP Vectra VE 4/50	M420	D3493A	8MB	420MB/Enhanced-IDE
HP Vectra VE 4/66	M1	D3494A	4MB	—
HP Vectra VE 4/66	M420	D3496A	8MB	420MB/Enhanced-IDE
HP Vectra VE 4/66	M840	D3497A	8MB	840MB/Enhanced-IDE
HP Vectra VE 4/100	M1	D3501A	4MB	—
HP Vectra VE 4/100	M420	D3502A	8MB	420MB/Enhanced-IDE
HP Vectra VE 4/100	M840	D3503A	8MB	840MB/Enhanced-IDE

\* Language option must be specified; for example, "ABA" for U.S. English.

### Specifications

#### Physical Characteristics

<b>System Dimensions</b>	16.5 inches wide x 15.3 inches deep x 4.9 inches high
<b>System Weight</b>	20 lbs
<b>Keyboard Dimensions</b>	18.3 inches wide x 7.0 inches deep x 1.3 inches flat (2.0 inches standing)

#### Acoustic Emission

Sound level (LwA):	<39 dB
Sound pressure at operator position (LpA):	<32 dB

#### Environmental Conditions

- Operating temperature: 40° to 104° F
- Nonoperating temperature: -40° to 158° F
- Operating humidity: 15% to 80% RH (noncondensing)
- Operating altitude: 10,000 ft
- Nonoperating altitude: 15,000 ft

#### Input Voltage

- Wide-range power supply
- 100 V to 240 V over 47 Hz to 63 Hz

#### Power Consumption

- Less than 30 W (typical)
- 150 W (absolute maximum)

#### Power Availability

- 100 W continuous; 100 W maximum peak output
- For four accessory cards: 3.5 A at +5 V; 0.3 A at 12 V; 0.3 A at -12V; 0.1A at -5 V

#### Heat

- 110 BTUs/hour (typical)
- 360 BTUs/hour (absolute maximum)

### Regulatory Compliance and Approvals

#### Electromagnetic Compatibility

- FCC Part 15 Subpart J Class B (USA)
- European EMC directive 89/336 EEC
- EN 55022 Class B
- EN 50082-1
- CISPR 22 Class B
- VCCI Class II (Japan)
- RRL Class B (Korea)
- SABS (South Africa)

#### Safety

- CSA C22.2 No 950-M89 (Canada)
- NEMKO (Norway)
- NOM (Mexico)
- SASO (Saudi Arabia)
- GSMARK (TÜV) TV (Germany)
- EZU (Eastern Countries)
- UL 1950 (USA)
- IEC 950 Compliance (CB Report)

#### Datacomm Compliance

- STN-DATEL (Sweden)

#### Ergonomics

- ZH1/618 Compliance (Germany)



See why HP Vectra PCs are the best choice for your computing needs.

For more information or a demonstration, just contact your nearest HP authorized reseller.

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Note: All certifications may not be completed at product introduction. Please check with your HP reseller for certification status.

\* 1994 J.D. Power and Associates Desktop Personal Computer Satisfaction Study. Study conducted among business users and based on 1,528 user respondents.

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