

## HP Vectra N and NI PC Series

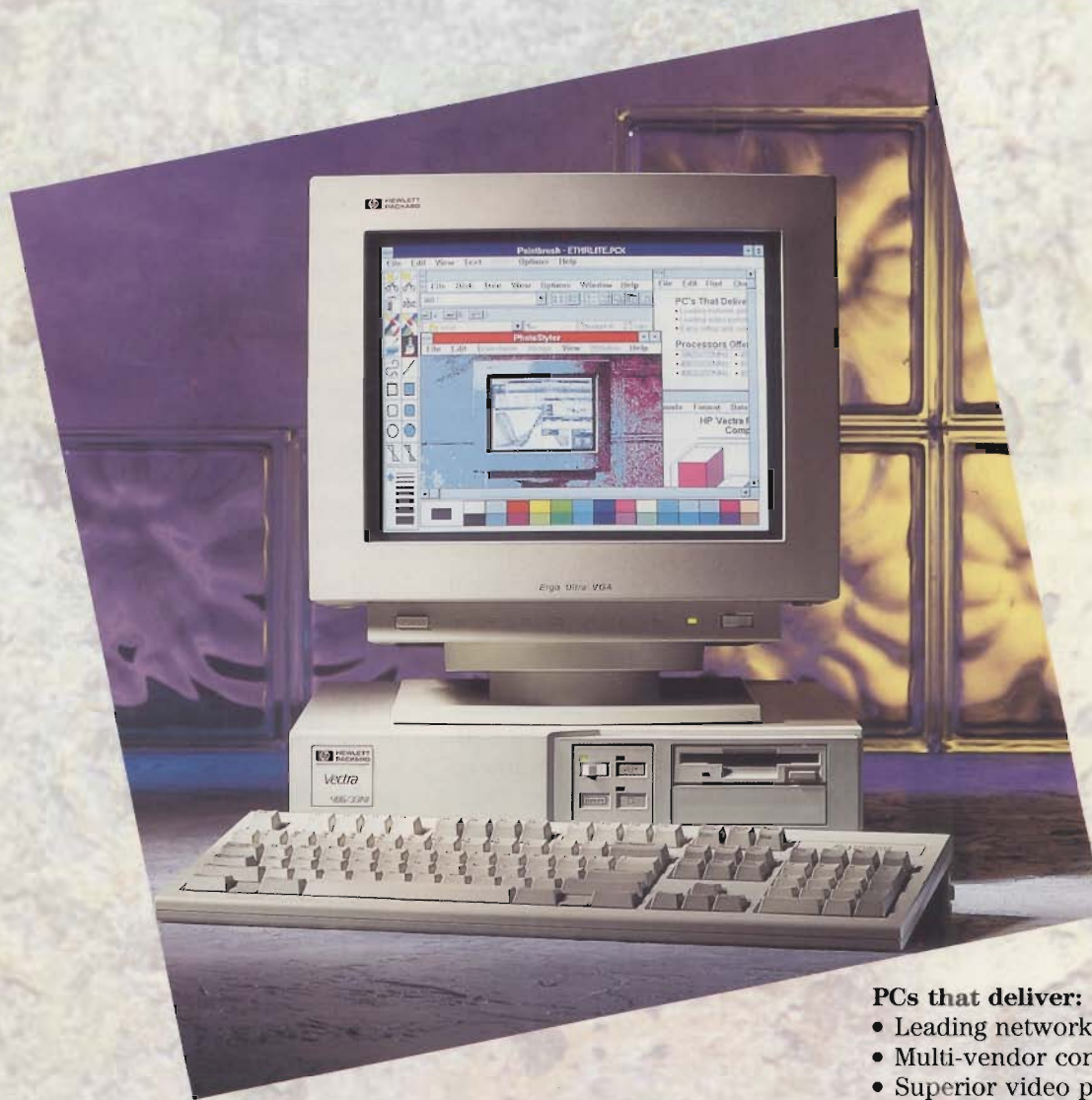
HP Vectra 386/33NI PC  
HP Vectra 486/25NI PC  
HP Vectra 486s/33NI PC  
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HP Vectra 486/66N PC

*Enhanced*

## Technical Data

The Optimal Client PC Solution  
for the Connected Office



### PCs that deliver:

- Leading network performance
- Multi-vendor connectivity
- Superior video performance
- Extensive and easy to use security features
- A trouble-free personal computing environment

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## Hewlett-Packard Trouble Free Personal Computing

As you would expect from a company with our unmatched reputation for quality, Hewlett-Packard's PCs deliver outstanding performance. And because we have a complete range, all at very affordable prices, everyone will find their ideal PC there.

But we've set our expectations higher than that. To give you exactly what you need in a PC - complete, trouble-free use and exchange of information - we've made the management of that information easier than ever before.

Add that HP PCs are backed by our world-class support and a three-year warranty, have been ergonomically designed with your comfort in mind, and have sophisticated and exceptionally easy-to-use security features, and you'll wonder why you ever considered any others.

*The new HP PCs: All you need to know ... is what you want to do.*

### HP Vectra N and NI PC Series

With the HP Vectra NI PC Series, Hewlett-Packard introduces its third generation of network-ready PCs. With their high-performance integrated 10Base-T interface, and optional coax module and token ring card, these PCs are ideal network clients. They have been fully tested for multivendor connectivity, and come with pre-installed software to enhance client/server networking as well as workgroup computing. These, plus many other features such as the standard multifunctional boot-ROM, make the HP Vectra NI PC Series the PCs of choice, whatever your networking environment.

Should you be considering networking your PC in the future, the HP Vectra N PC Series has been built to meet your needs. With its wide variety of models and a very attractive price, you will easily find the PC that meets your performance needs. And to make setup even easier, MS-DOS® and Microsoft® Windows have been pre-installed on the hard disk.

For Windows applications, you'll appreciate the speed and graphics capabilities of the HP Vectra N and NI PC Series. Their high resolution increases the amount of information displayed by 250 percent over VGA. What's more, you'll find the speed of the video subsystem, with its graphics accelerator, to be much faster than that of most other PCs on the market, making working with Windows applications a pleasure.

To secure your data the HP Vectra N and NI PC Series have an industry-leading security system. Two password levels allow full security for both the user and the network administrator. For ultimate security, the entire configuration of the PC, plus the passwords, are stored in hardware for protection against any corruption or unauthorised modification.

And what's more, they're ready to grow as your needs evolve. When you need more power on your platform you can take advantage of HP's industry-leading upgrade programme and upgrade easily in a matter of minutes to high-performance processors such as Intel's OverDrive™ processor based on Pentium™ technology.

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## Configurations and Models

	Model	Processor	Flexible Disk	Hard Disk	Hard Disk Controller	Memory	LAN Interface*	Product Number**
<b>HP Vectra NI PC Series</b>								
HP Vectra	1	386 SX 33-MHz	3.5", 1.44 MB	—	—	2 MB	10Base-T	D2703A
386/33NI PC	80	386 SX 33-MHz	3.5", 1.44 MB	85 MB	IDE	4 MB	10Base-T	D2704A
	80W	386 SX 33-MHz	3.5", 1.44 MB	85 MB	IDE	4 MB	10Base-T	D2712A
HP Vectra 486/25NI PC	120	i486 SX 25-MHz	3.5", 1.44 MB	120 MB	IDE	4 MB	10Base-T	D2756A
HP Vectra 486s/33NI PC	120	i486 SX 33-MHz	3.5", 1.44 MB	120 MB	IDE	4 MB	10Base-T	D2766A
HP Vectra 486/33NI PC	120	i486 DX 33-MHz	3.5", 1.44 MB	120 MB	IDE	4 MB	10Base-T	D2776A
<b>HP Vectra N PC Series</b>								
HP Vectra	1	386 SX 33-MHz	3.5", 1.44 MB	—	—	2 MB	—	D2701A
386/33N PC	80	386 SX 33-MHz	3.5", 1.44 MB	85 MB	IDE	4 MB	—	D2702A
	80C***	386 SX 33-MHz	3.5", 1.44 MB	85 MB	IDE	2 MB	—	D2707A
HP Vectra 486/25N PC	1	i486 SX 25-MHz	3.5", 1.44 MB	—	—	4 MB	—	D2751A
	120	i486 SX 25-MHz	3.5", 1.44 MB	120 MB	IDE	4 MB	—	D2752A
	240	i486 SX 25-MHz	3.5", 1.44 MB	240 MB	IDE	4 MB	—	D2753A
HP Vectra 486s/33N PC	1	i486 SX 33-MHz	3.5", 1.44 MB	—	—	4 MB	—	D2761A
	120	i486 SX 33-MHz	3.5", 1.44 MB	120 MB	IDE	4 MB	—	D2762A
	240	i486 SX 33-MHz	3.5", 1.44 MB	240 MB	IDE	4 MB	—	D2763A
HP Vectra 486/33N PC	1	i486 DX 33-MHz	3.5", 1.44 MB	—	—	4 MB	—	D2771A
	120	i486 DX 33-MHz	3.5", 1.44 MB	120 MB	IDE	4 MB	—	D2772A
	240	i486 DX 33-MHz	3.5", 1.44 MB	240 MB	IDE	4 MB	—	D2773A
HP Vectra 486/66N PC	240	i486 DX2 66-MHz	3.5", 1.44 MB	240 MB	IDE	4 MB	—	D2793A

\* Optional HP coax module or HP token ring card can be installed.

\*\* Language option must be specified; for example, Option ABB for British English.

\*\*\* HP Vectra 386/33N model 80C includes the HP Color VGA 14" monitor (D1197A) and MS-DOS.

Notes: All hard disk versions of HP Vectra NI PC Series come with pre-installed MS-DOS, Windows for Workgroups, HP Dashboard, and LAN and video drivers, plus a mouse (except 386/33NI model 80W which comes with Windows instead of Windows for Workgroups). All hard disk versions of HP Vectra N Series (except 386/33N model 80C) come with pre-installed MS-DOS, Windows, HP Dashboard and video drivers, plus a mouse.

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## Standard Features

- **Package:**
  - Slimline desktop
  - Includes HP industry-standard keyboard
  - 3 16-bit full-length ISA slots
  - 2 mass storage shelves (1 front-accessible)
- **Built-in I/O:**
  - 1 parallel port (25-pin), 2 serial ports (9-pin) on 486N models
  - 1 parallel port (25-pin), 1 serial port (9-pin) on all 386 models and on 486NI models
  - Mini-DIN keyboard and mouse ports
  - 16-pin VGA connector
  - 10Base-T connector on 386NI and 486NI models
  - VESA connector on 486 models
- **Memory:**
  - 4-Mbyte standard system memory (except for 386/33N and 386/33NI models 1 and 80C which have 2 Mbytes); 16 Mbytes maximum on 386 models, 48 Mbytes maximum on 486 models
- **Upgrades:**
  - System board upgrades from 386 to 486 performance
  - Chip upgrades on 486 models to higher performance and even to Intel's OverDrive processors based on Pentium technology
  - Memory and video upgrades
  - BIOS in flash ROM for easy BIOS upgrade
  - Flash ROM available for client management software
- **Ergonomics:**
  - Ergonomically-designed control panel, keyboard lock button and low-noise fan
  - Small footprint design
  - Easy-to-access/service design: snap on/off cover with no screws; easy access to memory modules, add-on cards, data storage devices, system board and other components
- Support of display power-saving mode for HP monitors to allow for consumption saving and reduced heat emission
- **Security:**
  - Chassis lock
  - Security bracket to attach the PC to the desk
  - Keyboard lock button (timer-programmable on 486 models)
  - Power on password
  - Network administrator password for configuration protection
  - Reset and power off disabled when keyboard is locked
  - Boot settings and enabling/disabling of I/O ports
  - Ultimate setup and password protection in EEPROM (patent pending)
- **Video subsystem:**
  - Video with hardware accelerator for top performance (local bus implementation on 486 models)
  - Up to 1024 x 768 resolution at 256 colours
  - Non-interlaced resolution with high vertical refresh rates of 70 and 72 Hz
  - Enhanced-mode drivers included
  - 512 Kbytes of 60ns video memory standard, expandable to 1024 Kbytes
- **LAN interfaces:**
  - On-board Ethernet 10Base-T 16-bit interface using bus master DMA mode for superior transfer rate of data between the memory of the PC and the network (NI Series only)
  - Optional coax module (D2746A) for the on-board Ethernet interface (NI Series only)
- Optional 16-bit 16/4 Mbps token ring interface (D2378A) using bus master DMA mode
- Information, e.g. MAC address, on Ethernet and token ring interface visible from within the setup programme
- Ethernet interface configurable from within setup
- **Warranty:**
  - Three-year warranty (first year on-site)

## Specifications

- **System dimensions:**
  - 10.2 cm high x 38.1 cm wide x 39.7 cm deep (4.0 in x 15.0 in x 15.6 in) (not including keyboard)
  - Weight 9 kg (20 lbs) (not including keyboard)
- **Acoustic emission:**
  - Sound level (LWA):
    - 40 dB(A) on 386NI, 486/25NI, 486s/33NI, 386/33N, 486/25N and 486s/33N models
    - 44 dB(A) on 486/33NI, 486/33N and 486/66N models
- **Input voltage:**
  - Wide range power supply
- **Power consumption:**
  - Less than 30 W (typical)
  - 85 W (absolute maximum)

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## Optional Accessories

- **Memory upgrades:**

- All 386 models:

- 2-Mbyte Memory Kit, (D2714A)
  - 8-Mbyte Memory Kit, (D2715A)

- All 486 models:

- 2-Mbyte Memory Kit, (D2381A)
  - 4-Mbyte Memory Kit, (D2156A)
  - 8-Mbyte Memory Kit, (D2152A)
  - 16-Mbyte Memory Kit, (D2676A)

- **Flexible disks:**

- 3.5-inch, 1.44-Mbytes (D2035A)

- **Hard disks:**

- 85 Mbytes, < 17ms average seek time (D2329A)
  - 120 Mbytes, < 17ms average seek time (D1696A)
  - 170 Mbytes, < 17ms average seek time (D2330A)
  - 240 Mbytes, < 16ms average seek time (D1697A)
  - 430 Mbytes SCSI-2, < 14ms average seek time (D1699A)

- **LAN interfaces:**

- Coax module for the HP Vectra NI PC Series (D2746A)
  - HP Token Ring ISA 16/4 adapter (D2378A)
  - HP EtherTwist 8-bit UTP (27245A) - 6 pack (27267A)
  - HP EtherTwist 16-bit UTP (27247B) - 6 pack (27269B)
  - HP 16-bit ThinLAN (27252A)

- **System board upgrades:**

- To HP Vectra 486N (D2716A)
  - HP Vectra 486NI (D2717A)

- **Chip upgrades:**

- Intel486 DX/33 processor (D2169A)
  - Intel486 DX2/50 or OverDrive/25 processor (D2171A)
  - Intel486 DX2/66 or OverDrive/33 processor (D2172A)

- **Video:**

- 512-Kbyte HP Video Upgrade Kit (D2713A)
  - Compatible with complete range of HP video monitors



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