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One family of PCs.  
So many benefits.

**HP Vectra PCs**

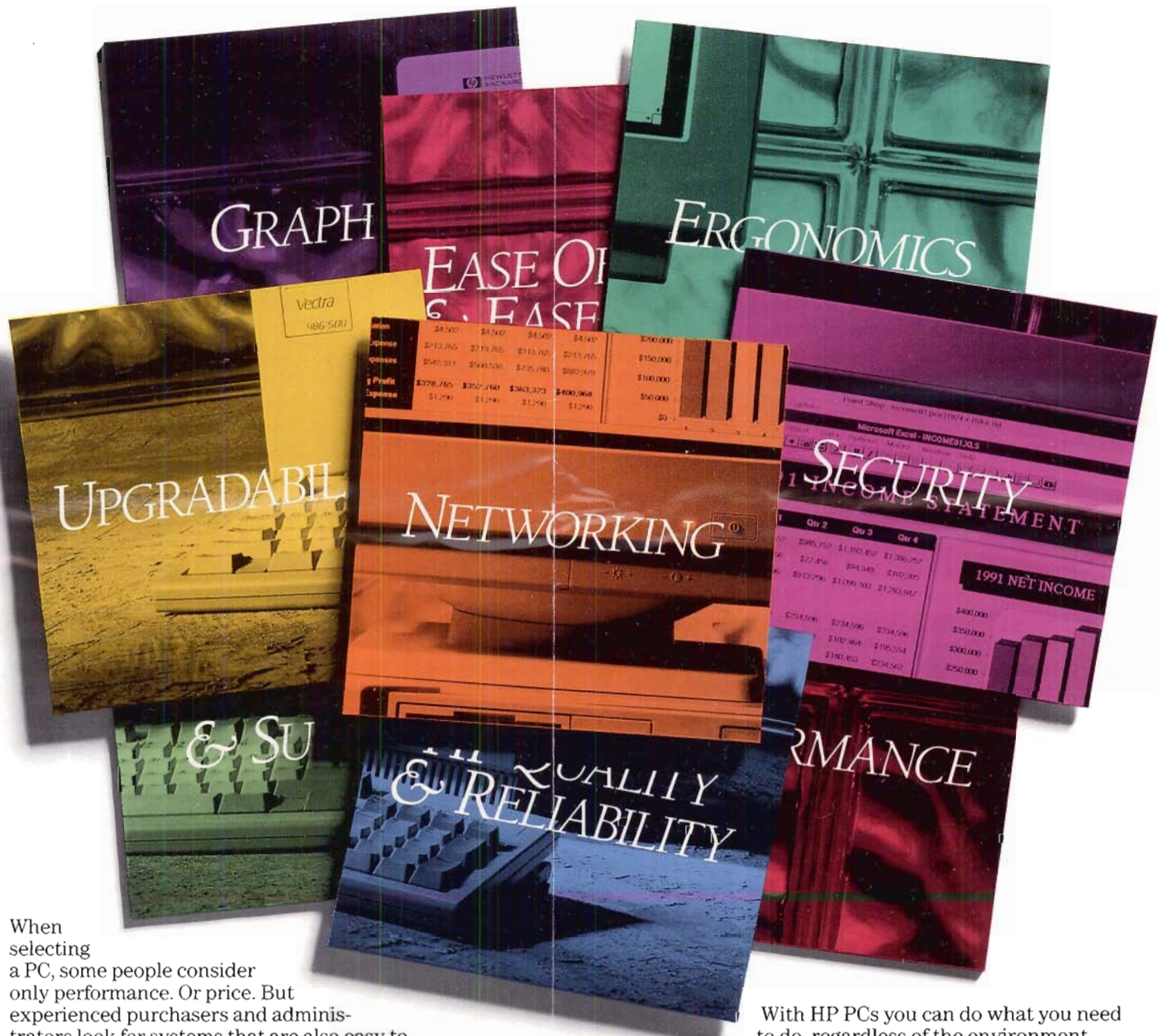


**HP Computer Museum**  
**[www.hpmuseum.net](http://www.hpmuseum.net)**

**For research and education purposes only.**

**Easy to...manage,  
administer, and use.**

Designed to deliver top performance, reliability, upgradability, and ergonomics—while still being easy to install, manage, and service—affordable HP PCs make life easier for PC administrators and end users alike.



When selecting a PC, some people consider only performance. Or price. But experienced purchasers and administrators look for systems that are also easy to set up, manage, and service. And that's a tall order.

Fortunately, at Hewlett-Packard, we don't believe these needs are mutually exclusive. That's why we developed the HP Vectra PC family.

With HP PCs you can do what you need to do, regardless of the environment or task—and still save time and money long after the purchase.

The Hewlett-Packard Vectra PCs. Now you don't have to compromise.

# Different needs. One solution. HP Vectra PCs.

HP Vectra PCs are designed to meet—and exceed—the needs of PC administrators, network managers, and end users.

## High-Performance Graphics

For graphics users, HP Vectras are the PCs of choice. Because of its fast integrated PC video, the HP Vectra 486U PC Series runs graphics-intensive applications faster than any other PCs in their class. With remarkable resolution, color, and speed, HP PCs outshine the competition.

## Protection from Data Theft, Hackers, and Prying Eyes

HP has integrated a number of easy-to-use security features that prevent many types of unauthorized use and unintentional misuse. A pushbutton keyboard lock/screen blank and user password protect the user's confidentiality and data integrity. A separate system administrator password provides easy control over the configuration as well as disk and port access.

## Easy to Set Up, Easy to Connect

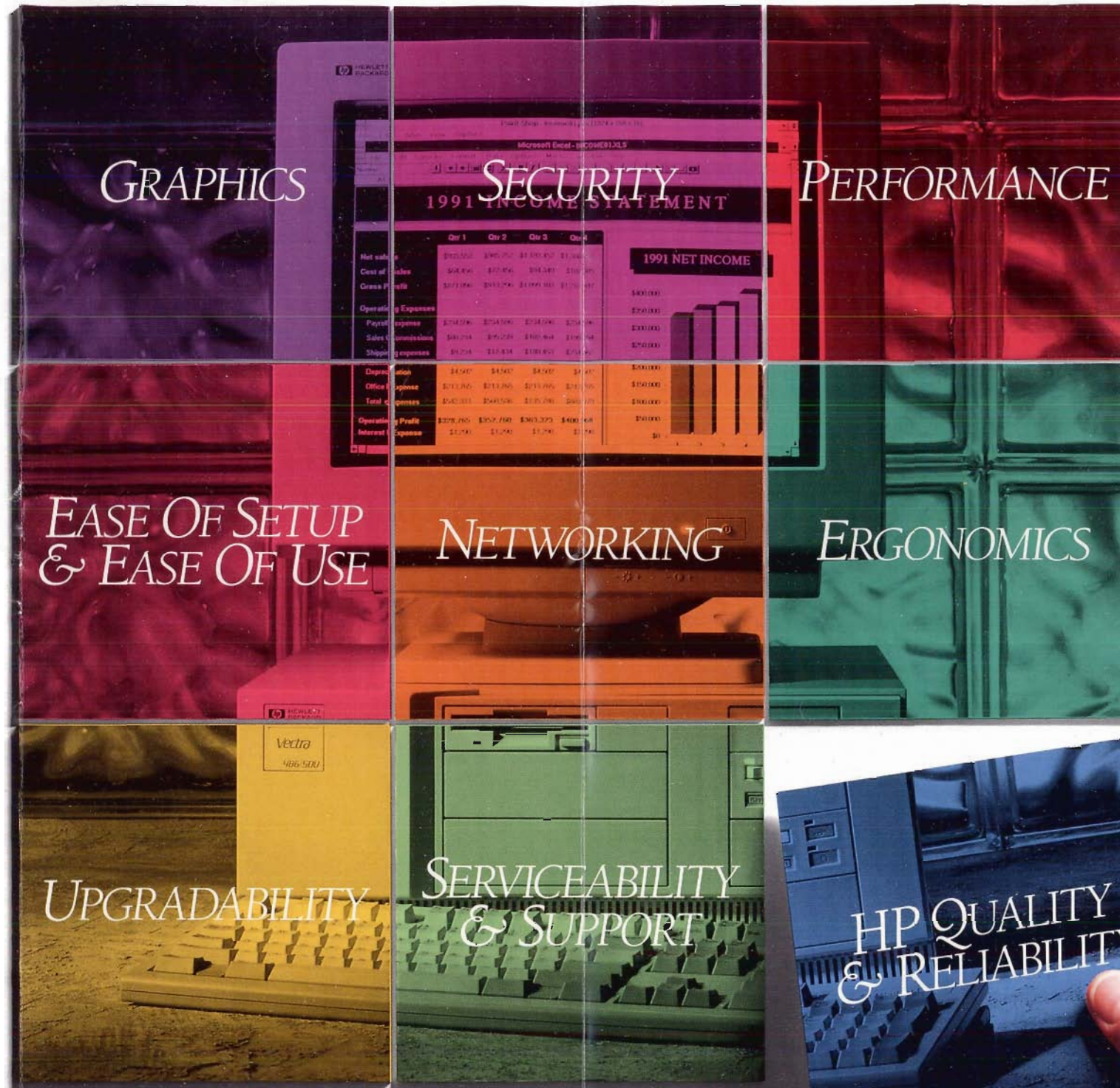
Key features minimize your effort at setup and make these PCs particularly easy to use. With simplified setup procedures in ROM, many HP PCs can automatically detect and adjust to hardware changes; the HP Vectra 486U and 486s/20 PCs feature diagnostics that detect problems automatically and list actions that you can take to correct the situation. And HP's network-ready PCs come with preconfigured network hardware that makes putting them on the network a snap.

## Comfortable and Productive Computing

HP PCs help create a quiet, comfortable work environment that can help boost your staff's productivity. They offer flicker-free displays to reduce eyestrain and low-noise fans for quiet operation. To save desk space, some HP PCs can be converted to deskside mini-towers.

## From Not Working to Networking in 60 Seconds

Because HP's network-ready PC models support the major networking standards and have been tested in a variety of networked environments, you can be sure that they can be easily connected to



a network today or tomorrow. For example, the HP Vectra 386N PC Series features can easily boot from both Novell's NetWare® and Microsoft's LAN Manager networks. Connection and operation are trouble-free, even in complex environments.

## Keeping Up with Technology

You don't have to buy a new PC every time technology advances. For maximum flexibility the HP Vectra 486U PC Series features the HP Universal Processor Upgrade Socket that accepts the Intel487 SX, 486 DX, 486 DX2, and OverDrive™ performance upgrade microprocessors. And the HP Vectra 486s/20 and 386s/20 PCs can be upgraded to the HP Vectra 486U PC Series with a system board swap that upgrades the CPU, cache, video, and architecture. The HP Vectra 386N PC Series is also upgradable to future HP Vectra 486 PCs via a system board swap.

## Service Made Easy

All accessories and subassemblies, including the system board, are easy to access and replace, saving users valuable service time and money. A snap-together design means no tools are required for most service operations on the HP Vectra 386N PC Series and their internal components can be easily accessed and replaced. And as part of our commitment to you, we'll include a one-year, on-site limited warranty with every HP Vectra 486/33T, 486s/20, and 486U PC you buy.

## World-Class Performance

Leading benchmarks prove the superior performance of HP PCs. For instance, with HP-designed memory cache, fast hard disk subsystem, and integrated Super VGA video, the HP Vectra 386s/20 PC is consistently faster than the competition in almost every area. With its leading-edge HP Ultra VGA+ video subsystem and 128-Kbyte cache memory, the HP Vectra 486U PC Series is designed to handle even the toughest graphics tasks at blazing speeds.

## It Doesn't Get Any Better Than This

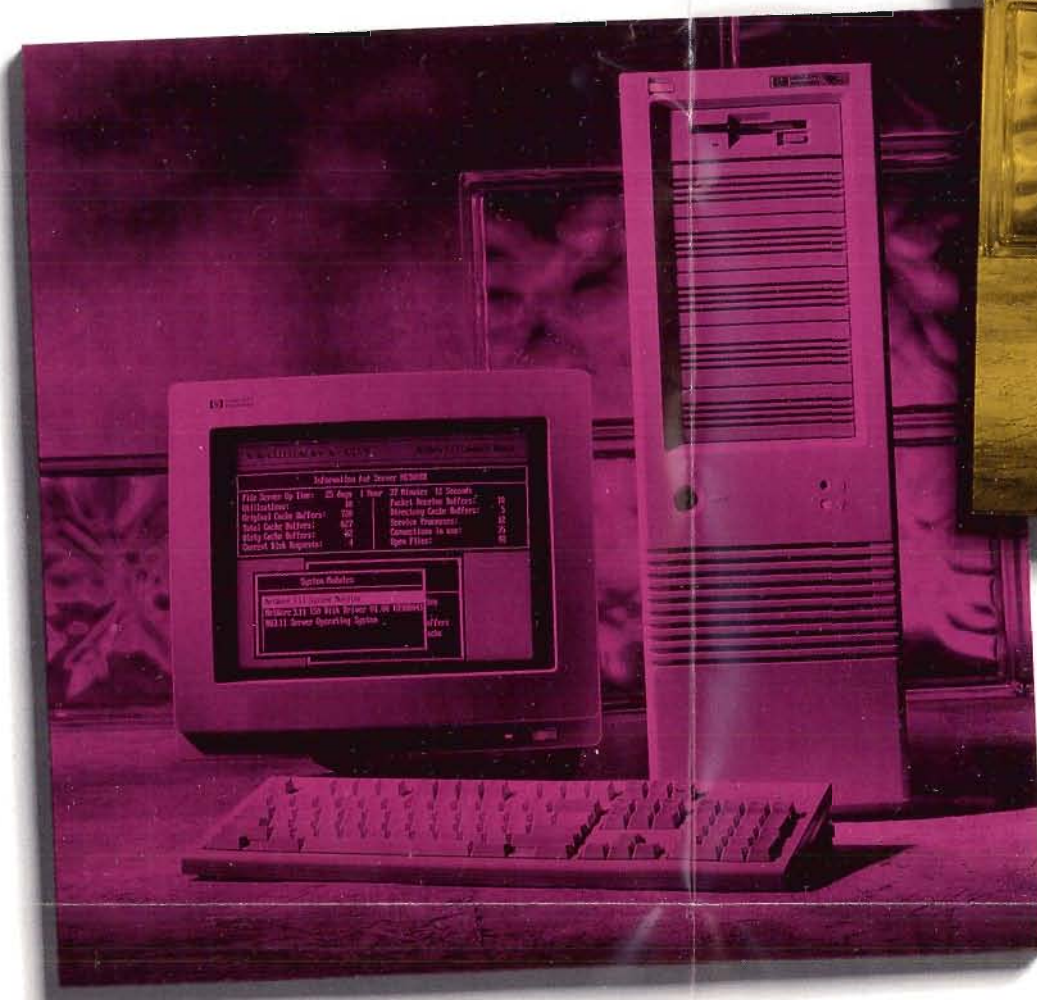
In separate surveys by *PC Magazine*, *Computerworld*, and *Dataquest*, HP PCs were ranked #1 in reliability. And, the cumulative results of recent *Dataquest* quarterly surveys place HP at the top in customer satisfaction, besting IBM, Apple, Dell, AST, NCR, and Compaq. We ensure that all HP PCs are of the highest quality by subjecting both the components and the completed systems to extreme-condition testing in both HP labs and business environments. HP works with its key suppliers to engineer quality into their components, rather than only testing them afterwards.

# A satisfying range of choices.

Because we understand that no single PC can satisfy every need, we created the HP Vectra family of PCs. Our Network Server offers high performance, reliability, and expandability so critical in server applications, while our powerful Advanced PCs are perfectly suited for graphics-intensive environments such as Windows and CAD. All offer the power, security, and expandability needed for standalone or connected use.

And for offices that are networked—or plan to be in the future—there are our Network-Ready PCs. With tested multivendor compatibility, comprehensive security, easy-connect features, and superb price/performance, these are the ideal PCs for networked desktops.

Hewlett-Packard Vectra PCs meet our customer's standalone needs for a top performing PC, while their extra features make them ideal for connected environments.



## Network Server PC

Based on the 486 CPU, this desktop PC works as a powerful network and multiuser system server or as a sophisticated standalone system for demanding technical and business applications. It's fully expandable, so you can easily add more internal storage or accessories to increase your productivity. And because this PC is built with legendary HP reliability, it will always be ready to work when you are.

### HP Vectra 486/33T PC—An Expandable Network Server

**CPU:** 33-MHz, 32-bit Intel486 microprocessor  
**Coprocessor:** Integrated 80387-compatible coprocessor  
**Memory:** HP's custom burst-mode memory controller, expandable from 4-64



## Advanced PCs

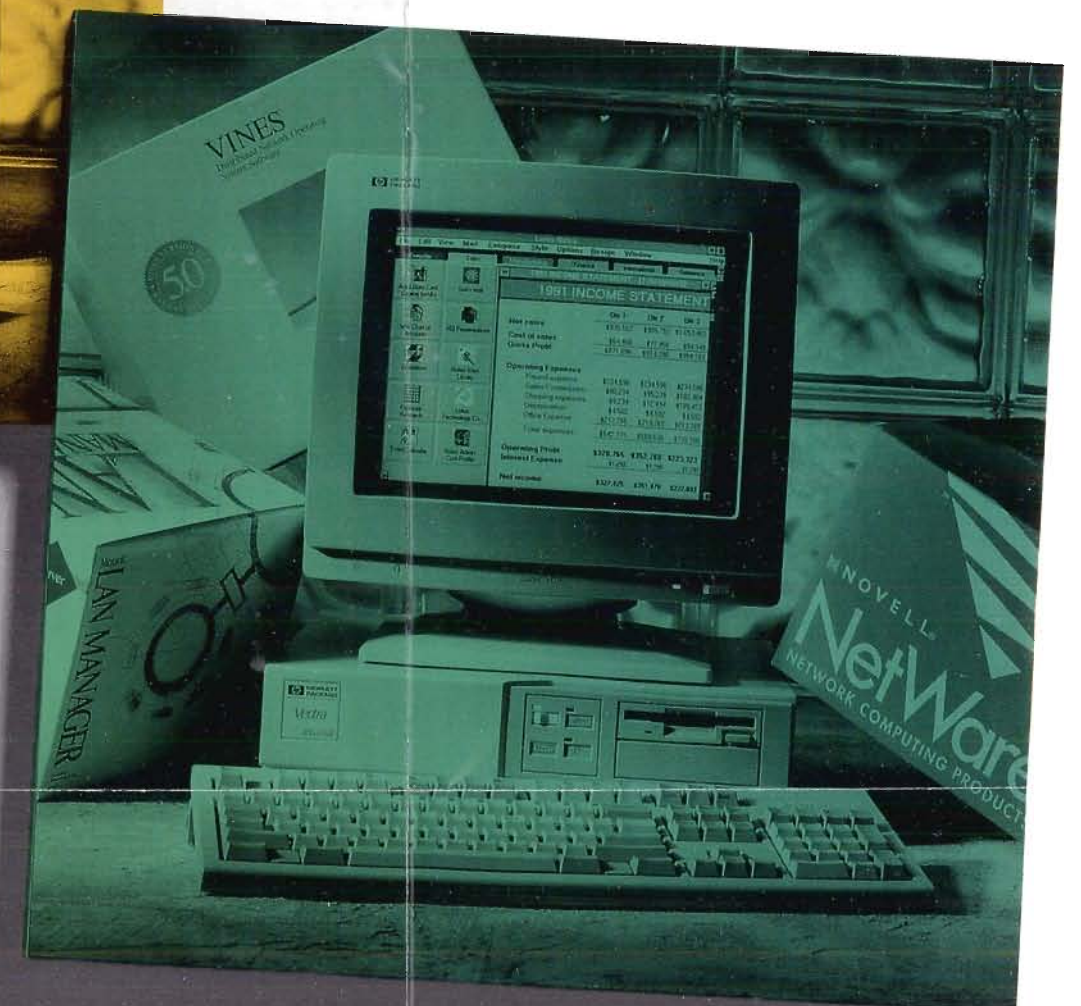
These desktop systems bring advanced functionality and superior price/performance to office and technical users. Whether used as standalone or networked PCs, they offer plenty of expandability for internal accessories, superb security and ergonomics, and leading system and graphics performance for a full range of office productivity or technical applications.

### HP Vectra 486U PC Series (486/25U, 486/33U, 486/50U, 486/66U\*)— The Ultimate Desktop PCs for Windows and CAD

**CPU:** 25-MHz Intel486 SX, 33-MHz Intel486 DX, 50-MHz Intel486 DX2, and 66-MHz Intel486 DX2 microprocessors  
**Memory:** 4-Mbyte base memory, expandable to 64 Mbytes on system board  
**Memory Cache:** 128-Kbyte write-thru cache; 8-Kbyte integrated cache  
**Mass Storage:** 85-860 Mbytes of internal hard disk capacity with 14 ms average seek time  
**Video Subsystem:** Local bus Ultra VGA+ supports 1024x768 noninterlaced, 800x600, and 640x480 resolutions in 16 or 256 colors  
**Expandability:** 5 EISA slots; 4 mass storage shelves  
**Security:** Control over configuration, screen display, data I/O, and network  
**Ergonomics:** Flicker-free video modes; low-noise fans; desktop or desktop configurations; optional low-emissions monitor  
**Serviceability:** Hinged chassis for easy access; BIOS stored in flash EPROM  
**Upgradability:** HP Universal Processor Upgrade Socket accepting Intel487 SX, Intel486 DX, DX2, and OverDrive chips

### HP Vectra 486s/20 PC— The PC for Advanced Power Computing

CPU: 66-MHz Intel486 SX



## Network-Ready PCs

HP's network-ready PCs have integrated network and security features that make them ideal for connected environments now or in the future, yet their full PC functionality and performance meet your standalone needs too. And because of their easy-connect features, putting them onto your network will be a snap—whether it's today or sometime in the future. They've already been tested in a variety of



## Network Server PC

Based on the 486 CPU, this desktide PC works as a powerful network and multiuser system server or as a sophisticated standalone system for demanding technical and business applications. It's fully expandable, so you can easily add more internal storage or accessories to increase your productivity. And because this PC is built with legendary HP reliability, it will always be ready to work when you are.

### HP Vectra 486/33T PC—An Expandable Network Server

**CPU:** 33-MHz, 32-bit Intel486 microprocessor  
**Coprocessor:** Integrated 80387-compatible coprocessor  
**Memory:** HP's custom burst-mode memory controller, expandable from 4-64 Mbytes on single memory board  
**Memory Cache:** 8 Kbytes internal cache; 128-Kbyte external cache memory  
**Mass Storage:** 84-2000 Mbyte IDE or SCSI-2 drives  
**Video:** Flexible video solution  
**Expandability:** 8 EISA accessory slots; 6 half-height mass storage shelves  
**Operating Environments:** Certified with Novell, Banyan network operating systems; tested with Microsoft LAN Manager 2.1

## You and HP: The Perfect Match

HP Vectra PCs were designed to bridge the gap between managing and using personal computers. They deliver personal computing solutions to meet *your* specific needs—whether you're a PC administrator, network manager, or end user. For more information about HP Vectra PCs call, in the U.S., 800-752-0900. In Canada call 800-387-3867.

## Advanced PCs

These desktop systems bring advanced functionality and superior price/performance to office and technical users. Whether used as standalone or networked PCs, they offer plenty of expandability for internal accessories, superb security and ergonomics, and leading system and graphics performance for a full range of office productivity or technical applications.

### HP Vectra 486U PC Series (486/25U, 486/33U, 486/50U, 486/66U\*)— The Ultimate Desktop PCs for Windows and CAD

**CPU:** 25-MHz Intel486 SX, 33-MHz Intel486 DX, 50-MHz Intel486 DX2, and 66-MHz Intel486 DX2 microprocessors  
**Memory:** 4-Mbyte base memory, expandable to 64 Mbytes on system board  
**Memory Cache:** 128-Kbyte write-thru cache; 8-Kbyte integrated cache  
**Mass Storage:** 85-860 Mbytes of internal hard disk capacity with 14 ms average seek time  
**Video Subsystem:** Local bus Ultra VGA+ supports 1024x768 noninterlaced, 800x600, and 640x480 resolutions in 16 or 256 colors  
**Expandability:** 5 EISA slots; 4 mass storage shelves  
**Security:** Control over configuration, screen display, data I/O, and network  
**Ergonomics:** Flicker-free video modes; low-noise fans; desktop or desktide configurations; optional low-emissions monitor  
**Serviceability:** Hinged chassis for easy access; BIOS stored in flash EPROM  
**Upgradability:** HP Universal Processor Upgrade Socket accepting Intel487 SX, Intel486 DX, DX2, and OverDrive chips

### HP Vectra 486s/20 PC— The PC for Advanced Power Computing

**CPU:** 20-MHz Intel486 SX microprocessor  
**Memory:** 4 Mbytes of base memory, expandable to 64 Mbytes on system board  
**Memory Cache:** 8 Kbytes internal cache memory  
**Mass Storage:** 52-860 Mbytes of internal hard disk capacity with 14 ms average seek time  
**Video:** Ultra VGA video controller supports 1024x768, 800x600, 640x480 resolutions  
**Expandability:** 5 EISA slots; 4 mass storage shelves  
**Security:** Control over configuration, screen display, data I/O, and network  
**Ergonomics:** Flicker-free video modes; low-noise fans; desktop or desktide configuration; optional low-emissions monitor  
**Serviceability:** Hinged chassis for easy access; BIOS stored in flash EPROM  
**Upgradability:** Upgradable to HP Vectra 486U PC series

### HP Vectra 386/25 PC—HP's Most Powerful 386 PC

**CPU:** 25-MHz, 32-bit Intel386 microprocessor  
**Memory:** 2 Mbytes of base memory, expandable to 32 Mbytes on system board  
**Memory Cache:** 32 Kbytes of high-speed cache memory  
**Mass Storage:** 42-336 Mbytes of internal hard disk capacity, with 16-19 ms average seek time  
**Video:** Super VGA video adapter with 800x600 resolution, 640x480 in up to 256 colors  
**Expandability:** 5 accessory slots; 3 mass storage shelves

### HP Vectra 386s/20 PC— A Flexible 386 SX PC for Office and Technical Users

**CPU:** 20-MHz Intel386 SX microprocessor  
**Memory:** 2 Mbytes of RAM, expandable to 16 Mbytes on system board  
**Memory Cache:** Memory cache controller with 16 Kbytes of static RAM  
**Mass Storage:** 52-480 Mbytes of internal hard disk capacity, with 17 ms average seek time  
**Video:** Integrated Super VGA with 800x600 in up to 16 colors and 640x480 in up to 256 colors at 60 Hz or 72 Hz; 1024x768 noninterlaced in up to 16 colors at 60 Hz or 70Hz  
**Expandability:** 5 16-bit ISA accessory slots; 4 mass storage shelves  
**Security:** Easy-to-use disk and port access control; pushbutton keyboard lock and screen blanking; separate user and administrator passwords  
**Ergonomics:** Flicker-free video; low-noise fan; functions as both desktop or desktide; optional low-emissions monitor  
**Serviceability:** Hinged chassis, snap-off cover  
**Upgradability:** Upgradable to HP Vectra 486U PC series

\*Available second half of 1992.



## Network-Ready PCs

HP's network-ready PCs have integrated network and security features that make them ideal for connected environments now or in the future, yet their full PC functionality and performance meet your standalone needs too. And because of their easy-connect features, putting them onto your network will be a snap—whether it's today or sometime in the future. They've already been tested in a variety of networked environments and support all of the major networking standards. And their special ergonomic features and leading performance help ensure high productivity in demanding office environments.

### HP Vectra 386/16N, 386/20N, and 386/25N PCs— PCs That Are Ready to Network When You Are

**CPU:** 16-MHz, 20-MHz, and 25-MHz, 32-bit Intel386 SX microprocessors  
**Memory:** 2-4 Mbytes base memory, expandable to 16 Mbytes on system board  
**Memory Cache:** 16 Kbytes of high-speed cache memory (20N and 25N only)  
**Mass Storage:** 52-240 Mbytes of internal hard disk capacity, with 17 ms average seek time  
**Video:** Integrated Super VGA Video supporting 800x600 resolution in 16 colors at 60 Hz or 72 Hz  
**Expandability:** 2 3.5-inch mass storage shelves; 3 16-bit ISA accessory slots  
**Operating Environments:** Certified with Novell, Microsoft LAN Manager, Banyan VINES, DEC PathWorks, SCO™ UNIX, and Artisoft LANtastic network operating systems, plus leading Ethernet, Arcnet, and Token Ring network adapter cards  
**Security:** Easy-to-use disk and port access control; pushbutton keyboard lock and screen blanking; separate user and administrator passwords  
**Ergonomics:** Front-accessible control panel; flicker-free video; low-noise fan; optional low-emissions monitor  
**Serviceability:** Snap-on chassis design for easy access  
**Upgradability:** Upgradable to future HP Vectra 486 PCs via system board swap

Get Windows and a mouse to boot! Buy any HP Vectra 386/16N, 386/20N, or 386/25N PC hard disk model and get Microsoft DOS 5.0 and Windows 3.1 and a mouse FREE!

