

HP Vectra XA PC

Technical Data

High-Performance PC for Advanced Business Users

PCs that Deliver

- High-performance Intel Pentium® Pro 180- or 200-MHz processor optimized for 32-bit environments
- 32-bit PCI professional video solution with 64-bit graphics engine featuring 3D hardware acceleration
- High-performance Extended Data Output (EDO) DRAM
- 10Base-T Ethernet controller integrated on the PCI bus
- Enhanced manageability with LAN Remote Power technology
- PCI Bus Master Enhanced-IDE controller with PIO Mode 4 support
- · Keyboard start and soft power-off
- · Advanced password security



Standard Features

When You Start Up an HP Vectra XA PC, Be Sure to Fasten Your Seatbelt.

If the limitations of 16-bit operating systems have kept you from going Pentium Pro, it's time to take your foot off the brakes. Because, with Hewlett-Packard's desktop HP Vectra XA PCs, those old speed limits are history.

Windows® NT Platform of Choice

Designed from the bottom up for 32-bit Windows NT applications, these PCs incorporate Intel's

180- and 200-MHz Pentium Pro processors with integrated secondary cache. This cache operates at the same speed as the processor—significantly improving system performance. To further enhance performance, HP has added numerous *other* advanced features.

For fast memory access, the HP Vectra XA PCs offer up to 192 Mbytes of high-performance EDO DRAM, and for top hard disk drive performance, a PCI Bus Master Enhanced-IDE controller. Their Matrox Millennium video solution with 3D acceleration delivers true-color desktop publishing, professional video playback, and full-screen 3D animation—plus dual-ported Window RAM (WRAM) to simultaneously process graphics and screen output. All models offer an 8X-speed CD-ROM drive, and some feature integrated audio with a built-in speaker and ergonomic volume control.

Built-in Networking and Management

With these HP PCs, the cutting edge doesn't stop with *performance*. It's their state-of-the-art *networking and manageability*

PC System Features				
СРИ	Intel Pentium Pro 180- or 200-MHz processor			
Package	Midsize desktop HP Windows 95 Keyboard with additional keys and HP-exclusive, instant-on StartKey HP Mouse (hard disk models)			
Cache	16-KB Level 1 internal to processor 256-KB Level 2 internal to processor			
Memory	16-MB (2×8-MB) or 32-MB (2×16-MB), 60-ns EDO DRAM standard, expandable to 192-MB this six SIMM slots			
Mass storage shelves	Four shelves (three front-accessible): One front-accessible with standard, third-height 3.5-inch floppy drive installed One front-accessible, half-height 5.25-inch with CD-ROM drive installed One front-accessible, third-height 3.5-inch or 5.25-inch for floppy drive, tape backup, PCMCIA drive, or internal second hard disk drive One internal, third-height with 3.5-inch primary hard disk drive installed			
Accessory slots	Four slots:			
Floppy disk drive	Third-height, 3.5-inch, 1.44-MB floppy drive installed			
Hard disk drives	• 1.28-GB or 2.5-GB EIDE			
CD-ROM	8X EIDE CD-ROM drive			
Audio subsystem (selected models)	 Integrated Sound Blaster™ 16 and Sound Blaster Pro–compatible audio Advanced, software-based, real-time audio with automatic dynamic filtering for digital audio recording and playback Built-in speaker and ergonomic volume control Compression/decompression system MPC-3–compliant 			
Hard disk controller	PCI Bus Master Enhanced-IDE (DMA Mode 2) controller with PIO Mode 4 support for top hard disk drive performance (up to four Fast-IDE devices supported)			

Standard Features continued

features that put our PCs on top for networked businesses. Integrated Ethernet networking with an optional coax module, LAN drivers, and certification with a wide range of LAN environments ensure that you'll get the HP Vectra XA PCs up and running on your network in minutes. And industry-standard HP DMI allows you to remotely manage more than 300 PC attributes from all major PC management platforms, including HP OpenView.1

For further ease of management and cost savings, HP's LAN Remote Power technology lets you remotely awaken these PCs from "sleep" or "power-off" modes. And our new Vectra Op-Center Help Desk management applications give you access to all the information you need for inventory and asset management.

Advanced Security

To keep your PCs safe and your critical data secure, the HP Vectra XA PCs offer advanced security features such as multi-level passwords, a ROM-based socket for virus protection, and asset tracking. And speaking of security, the HP Vectra XA PCs—like all HP Vectra PCs—offer you the peace of mind that comes only with the industry-leading quality, reliability, support, and investment protection you get from HP.

So why not take an HP Vectra XA PC for a spin today? Just call your HP authorized reseller. And don't forget to buckle up.

¹DMI static attributes available August 1996; full DMI support available November 1996.

PC System Features conti						
Built-in I/O	• One 25-pin p. • Mini-DIN key • 15-pin VGA c • VESA connec • Audio ports (Two 9-pin serial ports (16550 UART) One 25-pin parallel port (ECP/EPP bi-directional Centronics supporting IEEE 1284) Mini-DIN keyboard and mouse ports 15-pin VGA connector VESA connector for VGA pass-through Audio ports (line-in, line-out, microphone-in, speaker-out) on models with integrated audio MIDI/joystick connector on models with integrated audio 				
Upgradability		 Pentium Pro OverDrive™ support (when available) Flash EEPROM for convenient BIOS upgrades 				
Video Subsystem						
High-performance video	– 64-bit grap – Integrated application	Matrox Millennium card installed in one PCI slot – 64-bit graphics accelerator on PCI bus – Integrated graphics, video, and 3D acceleration for professional, graphics-intensive applications – Supports DDC2B				
Memory	accessory D	 2-MB, dual-ported WRAM with optimized PCI bus design, upgradable to 4-MB (with HP-supplied accessory D3557A) or 8-MB (with Matrox-supplied accessory) Improves performance by simultaneously processing graphics and screen output 				
Supported drivers	Windows NDrivers fromHP-tested	Drivers on CD-ROM: — Windows NT 3.51, Windows 95, and OS/2® Warp Drivers from HP BBS and WWW: — HP-tested IBM® OS/2 2.1 — MS-DOS® 6.22, Windows 3.1, Windows for Workgroups 3.11				
Resolutions	Resolution 640×480 800×600 1024×768 1280×1024 1600×1200	256 colors (8-bit) 2MB 60-120 Hz 2MB 60-120 Hz 2MB 60-120 Hz 2MB 60-90 Hz 2MB 60-72 Hz	65K colors (16-bit) 2MB 60-120 Hz 2MB 60-120 Hz 2MB 60-120 Hz 4MB 60-90 Hz 4MB 60-72 Hz	16.7M colors/true color (24-/32-bit) 2MB 60-120 Hz 2MB 60-120 Hz 4MB 60-120 Hz 4MB 60-90 Hz 8MB 60-72 Hz		

Value-Added Features

Integrated Networking, Leading PC Management, Advanced Security

ntegrated Ethernet LAN	32-bit PCI Bus Master 10Base-T Ethernet controller					
ntegrated Ethernet LAN						
	Low CPU usage releases resources for local user tasks LAN activity LED					
	-					
Preconfigured networking	MAC address visible from PC configuration summary screen					
	Preconfigured drivers on CD-ROM for easy installation of a wide range of network clients					
Boot-ROM	 Integrated, multiprotocol boot-ROM for Novell® and Microsoft® networks 					
	Optional ROM socket for third-party TCP/IP boot-ROM					
Available LAN drivers (on CD-ROM)	Novell NetWare® 3.x/4.x clients					
, ,	Windows 3.1, Windows for Workgroups 3.11, Windows 95, Windows NT clients					
	Banyan VINES® client					
	DEC PathWorks™ client					
	IBM OS/2 Warp Connect					
Certifications	Novell client					
	Windows 95, Windows NT WS 3.51					
	Banyan VINES					
	DEC PathWorks					
	• IBM OS/2 2.x, OS/2 3.x (Warp)					
	SunSoft Solaris®					
Network Administrator Guide	Online or printed guide provides network and remote boot setup information for complex					
	environments					
Easy driver updates	Latest LAN drivers available directly from the HP Vectra World Wide Web site at					
	URL: www.hp.com/go/vectra; CompuServe™; HP BBS, and America Online					
Other connections	Optional HP coax module (D3979A) for ThinLAN connection					
	Tested with leading Token Ring adapters					
PC Management Features						
1 6 Management reatures						
Remote management	HP DMI based on industry-standard DMI specifications					
	Provides complete remote management of more than 300 PC attributes from HP OpenView,					
	Intel LANDesk, Microsoft SMS, and other DMI-compliant applications					
	Allows administrator to perform functions such as: Fight Allows Fig. Fig					
	Enable/disable PC boot from remote server or floppy drive					
	View remote start setting status Percentularly the PC keybeard mayor and react and an off buttons.					
	Remotely lock the PC keyboard, mouse, and reset and on/off buttons					
LAN Remote Power technology	Allows PC to be turned on through the LAN from sleep and power-off modes to minimize					
	business disruption					

¹ DMI static attributes available August 1996; full DMI support available November 1996.













Value-Added Features continued

PC Management Features continu	ed				
Vectra Op-Center Help Desk management applications	 Centralized inventory and asset management information and "at-a-glance" viewing of: PC serial number stored in non-volatile memory Customized asset label ("tattoo") of up to 80 characters Number of installed disk drives and ports Many other system parameters 				
Security management	Allows administrator to: View multi-level password status and history View and configure HP Vectra XA PC's advanced security features				
Features for Trouble-Free Perso	nal Computing				
Advanced security	 Configuration settings and passwords stored in non-erasable, serial EEPROM to protect against corruption and unauthorized modifications Two-level password protection with maximum password length extended to 32 characters (meets C2-level security requirements) Ability to limit password validity time and number of log-in retries Password-protected port and drive enable/disable options Front-panel button immediately locks keyboard, mouse, and reset and on/off buttons Optional ROM socket for third-party virus-protection programs Chassis keylock and security bracket 				
Ergonomic/environmental design	Keyboard start and power-off through HP soft power-down for Windows NT or Windows 95 shutdown capability Low-noise, variable-speed fan Ergonomic video modes supporting non-interlaced resolutions up to 1600×1200 LAN Remote Power technology CFC-free; single plastic for easy recycling				
Bundled software	 Hard disk models: Windows NT Workstation 3.51 CD-ROM documentation on support, performance benefits, product features, and use of PC Drivers on CD-ROM 				
Ease of setup and service	 Snap on/off cover; no screws Flash BIOS (EEPROM) for fast, easy upgrades Industry-leading technical support program Free 3-year limited warranty (1-year on-site, next-business-day; 2-year carry-in) 				











Optional Accessories

PCs That Take You to the Future

Optional Accessories	
Memory upgrades ¹	• 192-MB maximum EDO DRAM: - 8-MB (2×4-MB), 60-ns EDO SIMMs (D3646B) - 16-MB (2×8-MB), 60-ns EDO SIMMs (D3647B) - 32-MB (2×16-MB), 60-ns EDO SIMMs (D3648B) - 64-MB (2×32-MB), 60-ns EDO SIMMs (D4543A)
Data storage	Supported flexible drives: - 3.5-inch, 1.44-MB third-height (D2035B) Mounting rails: - Set of five 3.5-inch side mounting rails (D3566A) Supported EIDE hard disk drive: - 1.28-GB (D2930A)
Video upgrade	• 2-MB WRAM upgrade kit (D3557A) ²
Video monitors	Full range of standard and ergonomic HP monitors
LAN accessories	HP Coax Module for HP Vectra XA PC integrated LAN (D3979A) HP 10/100VG Selectable ISA LAN adapter (J2573A) HP 10/100VG Selectable PCI LAN adapter (J2585B)
Processor upgrades	Intel OverDrive for Pentium Pro–based systems (when available)
Setup and user guides	HP Vectra XA PC User Manual Kit (D4544A)
Input devices	HP Keyboard (C4725A) HP Mouse (D3751B)
Multimedia accessories	HP Audio/CD Accessory (D4179A) (includes CD-ROM; available to resellers only)

Configurations and Models

HP Vectra XA PC

HP Vectra XA PC Configurations and Models									
Name	Model ³	Product Number	RAM	Audio	Hard Disk	Integrated Ethernet LAN	CD-ROM	Video	Bundled Operating System
HP Vectra XA 6/180	M1	D4530A	16MB	No	_	Yes	8X	Matrox Millennium	None
	M1280	D4531N	16MB	No	1.28GB	Yes	8X	Matrox Millennium	Windows NT WS 3.51
	M2500	D4532N	32MB	Yes	2.5GB	Yes	8X	Matrox Millennium	Windows NT WS 3.51
HP Vectra XA 6/200	M1	D4533A	16MB	No	_	Yes	8X	Matrox Millennium	None
	M1280	D4534N	16MB	No	1.28GB	Yes	8X	Matrox Millennium	Windows NT WS 3.51
	M2500	D4535N	32MB	Yes	2.5GB	Yes	8X	Matrox Millennium	Windows NT WS 3.51

Must upgrade in pairs of identical SIMMs.
 6-MB upgrade available from Matrox.
 Language option must be specified; for example, "ABA" for U.S. English.

Specifications

Physical Characteristics

System Dimensions (without keyboard): 16.5 inches wide \times 15.3 inches deep \times 4.9 inches high (42.0 cm \times 39.0 cm \times 12.5 cm)

System Weight (without keyboard) 24.8 lb (11.3 kg)

Keyboard Dimensions 18.3 inches wide \times 7.0 inches deep \times 1.3 inches flat (2.0 inches standing) (46.4 cm \times 17.8 cm \times 3.3 cm [5.1 cm])

Acoustic Emission

Sound level (LwA): ≤40dB (A)

Environmental Conditions

- Operating temperature: 40° to 104° F (5° to 40° C)
- Nonoperating temperature: -40° to 158° F (-40° to 70° C)
- Operating humidity: 15% to 80% RH (noncondensing) at 104° F (40° C)
- Operating altitude: 10,000 ft (3,100 m)
- Nonoperating altitude: 40,000 ft (12,200 m)
 Note: Operating temperature and humidity range may vary with data storage device.

Input Voltage

 Auto-ranging, worldwide power supply: 100 to 240 VAC over 47 Hz to 63 Hz

Power Consumption

- 30 W to 40 W (typical)
- 150 W (absolute maximum)

Power Availability

- 100 W continuous; 100 W maximum peak output
- For four accessory cards: 3.5 A at +3.3 V;
 8 A at +5 V; 1 A at +12 V; 0.2 A at -12 V;
 0.1 A at -5 V
- Continuous output on combined +5 V and +3.3 V; 65 W 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
- Pr EN 55024-2, -3, -4
- EN 50082-1
- IEC 801.2, IEC 801.3, IEC 801.4, IEC 801.5
- · CISPR 22 Class B
- CRC.1374 Class B (Canada)
- · GB 9254-88 (China)
- VCCI Class II (Japan)
- RRL Class B (Korea)
- · SABS (South Africa)

Safety Approvals

- BS6301 (General Approval) (UK)
- CSA C22.2 No. 950-M89 (Canada)
- SETI (FI-Finland)
- NEMKO (Norway)
- NOM (Mexico)
- SASO (Saudi Arabia)
- TÜV (Germany)
- EZU (Eastern Countries)
- UL 1950 (USA)
- · EN60950 Compliance
- IEC 950 Compliance

Datacomm Compliance

- BZT (Germany)
- DATEL (Sweden)

Ergonomics

• ZH1/618 Compliance (Germany)

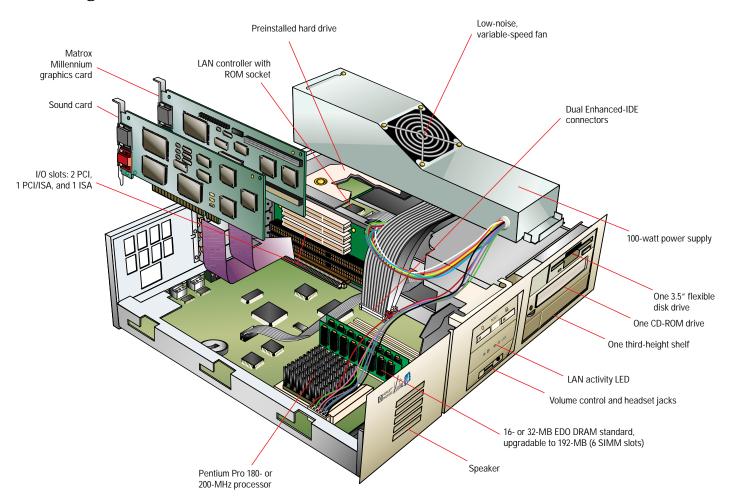
At-Your-Service Support

HP Vectra PC users can count on:

- Three-year limited warranty (1-year on-site, next-business-day; second- and third-year carry-in). Additional warranty upgrades for on-site service with 4-hour maximum response time available on business days; 24-hour, 7-day service available at an extra charge.
- Free phone support from HP's Customer Support Center for questions concerning PC setup, configuration, startup, and hardware diagnosis.*
- Product and technical support information via HP FIRST (fax retrieval system).
- Technical support information and assistance via the HP World Wide Web site, URL: www.hp.com/go/vectrasupport.
- HP's free electronic bulletin board, available 24 hours a day, 7 days a week.
- * Available in the U.S.



HP Vectra XA PC*Integrated audio models





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

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

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

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