

# HEWLETT-PACKARD

## HP Vectra Personal Computer Product Line

Configuration Guide

For Internal Use Only



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*Not intended for customer use.*

*Note: This sales guide focuses on the desktop and floor-mount members of the HP Vectra personal computer family. For information on HP Portable Vectra personal computers, please consult the HP Portable Vectra PC Family Sales Guide (5954-0365).*

# Introduction

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The worksheets in this guide are designed to help you configure personal computer systems with the appropriate peripherals and accessories. The information from the worksheets will in turn help you complete a purchase order or customer letter.

It is important to configure the correct accessories for each personal computer model. PC-specific accessories such as internal data storage, memory enhancements, coprocessors, input devices and system software are listed in the same chapter as the PC. General product line accessories, such as video systems, data communication accessories, external data storage, printers, plotters and cables are listed in Chapter 6.

# Chapter 1

## Choosing an HP Vectra PC

All Vectra PCs include a processor board, power supply, serial/parallel I/O, shelves for data storage

devices, slots for accessory cards, the Enhanced Vectra PC Keyboard, disc cache software, and terminal

emulation software. The following table will help you decide which PC is best for your application.

**Feature Comparison Table—HP Vectra PC Family**

Feature	HP Vectra CS PC	HP Vectra ES PC	HP Vectra ES/12 PC	HP Vectra RS/16 PC	HP Vectra RS/20 PC
<b>Processor</b>	8086-compatible	80286	80286	80386	80386
<b>Clock speed</b>	7.16-MHz, zero-wait-states	8-MHz, one-wait-state	12-MHz, one-wait-state	16-MHz, supports zero-wait-states	20-MHz, supports zero-wait-states
<b>Package type</b>	desktop	desktop	desktop	floor mount	floor mount
<b>Power supply</b>	176-Watts peak	176-Watts peak	176-Watts peak	330-Watts peak	330-Watts peak
<b>Standard RAM</b>	640-KB on processor board	640-KB on processor board	640-KB on processor board	1 or 2-MB on processor board	1 or 2-MB on processor board
<b>Expanded memory support</b>	7.16-MHz LIM EMS 3.2 (8-bit) (8-MB maximum)	8-MHz LIM EMS 4.0 (16-bit) (8-MB maximum)	12-MHz LIM EMS 4.0 (16-bit) (8-MB maximum)	16-MHz LIM EMS 4.0 (32-bit) (16-MB maximum)	20-MHz LIM EMS 4.0 (32-bit) (16-MB maximum)
<b>Maximum memory</b>	8.64-MB using memory cards	11.64-MB using memory cards	11.64-MB using memory cards	16-MB on processor board	16-MB on processor board
<b>Number of accessory slots</b>	7 total; 7 8-bit	7 total; 2 8-bit 5 16-bit	7 total; 2 8-bit 5 16-bit	8 total; 2 8-bit; 6 16-bit	8 total; 2 8-bit; 6 16-bit
<b>Maximum number I/O ports</b>	2 serial, 1 parallel	4 serial, 2 parallel	4 serial, 2 parallel	4 serial, 2 parallel	4 serial, 2 parallel
<b>I/O bus speed</b>	7.16-MHz	8-MHz	8-MHz	8-MHz	8 and 10-MHz switchable
<b>HP-HIL support</b>	optional card	standard	standard	standard	standard
<b>Hard disc controller</b>	optional card	standard on four-function card	standard on four-function card	standard on four-function card	standard on four-function card
<b>Hard disc controller type</b>	ST-506 (XT-compatible)	ST-506	ST-506	ST-506 or ESDI	ST-506 or ESDI
<b>Standard flexible disc</b>	5.25-in. 360-KB or 3.5-in. 1.44-MB	5.25-in. 1.2-MB or 3.5-in. 1.44-MB	5.25-in. 1.2-MB or 3.5-in. 1.44-MB	5.25-in. 1.2-MB (3.5-in. 1.44-MB optional)	5.25-in. 1.2-MB (3.5-in. 1.44-MB optional)
<b>Hard disc data storage available</b>	20-MB optional	20 or 40-MB optional	20 or 40-MB optional	40 or 103-MB standard	40, 103, 155, or standard
<b>Maximum data storage devices</b>	3 half-height	3 half-height	3 half-height	6 half-height	6 half-height
<b>Coprocessor support</b>	7.16-MHz 8087 optional	8-MHz 80287 optional	8-MHz 80287 optional	16-MHz 80387 optional (Weitek 1167 compatible)	20-MHz 80387 optional (Weitek 1167 compatible)

## Pre-assembled HP Vectra PC Models

Each of the HP Vectra PCs is available with pre-assembled data

storage devices and video adapter cards. The table below summarizes the available pre-assembled PC configurations.

Qty.	PC	Model Number	Flexible Disc	Hard Disc	Video Adapter	Product Number	Notes	
	CS	10	5.25-in.			D1110A		
		15	3.5-in.			D1115A	Orderable July 1988 2 flexible discs	
		16	5.25-in.		VGA	D1116A		
		20	5.25-in.		20 MB		D1120A	
		26	5.25-in.		20 MB	VGA	D1126A	
		27	3.5-in.		20 MB	VGA	D1127A	Orderable July 1988
	ES	10	5.25-in.			D1210A		
		15	3.5-in.			D1215A	Orderable July 1988	
		20	5.25-in.		20 MB			D1220A
		26	5.25-in.		20 MB	VGA	D1226A	
		27	3.5-in.		20 MB	VGA	D1227A	Orderable July 1988
	ES/12	10	5.25-in.			D1310A		
		15	3.5-in.			D1315A	Orderable July 1988	
		20	5.25-in.		20 MB			D1320A
		26	5.25-in.		20 MB	VGA	D1326A	
		27	3.5-in.		20 MB	VGA	D1327A	Orderable July 1988
		40	5.25-in.		40 MB		D1340A	
		46	5.25-in.		40 MB	VGA	D1346A	
		47	3.5-in.		40 MB	VGA	D1347A	Orderable July 1988
	RS/16	40	5.25-in.	40 MB		D1500A	1 MB RAM	
		100	5.25-in.	103 MB		D1502A	2 MB RAM	
		106	5.25-in.	103 MB		D1501A	2 MB RAM	
	RS/20	40	5.25-in.	40 MB		D1600A	1 MB RAM	
		100	5.25-in.	103 MB		D1602A	2 MB RAM	
		106	5.25-in.	103 MB		D1601A	2 MB RAM	
		150	5.25-in.	155 MB		D1603A	2 MB RAM	
		300	5.25-in.	310 MB		D1604A	2 MB RAM	
		Power	5.25-in. &	103 MB		D1606B	4 MB RAM, VGA	
		User	3.5-in.			(512KB RAM)	color display, coprocessor, software	

Note: The 5.25-in. flexible disc HP Vectra CS models have 360-Kbyte flexible disc drives. All other 5.25-in. flexible disc HP Vectra PCs have 1.2-Mbyte flexible disc drives. HP Vectra PCs with 103-Mbyte or greater hard disc drives also have an ESDI controller.

Pre-assembled HP Vectra PC systems for high-performance RS/20 applications and desktop publishing are listed in Chapter 5. The HP Vectra RS/20 PC Power User and Publisher PC systems include hard disc data storage, video adapter and display, operating system, and other software.

## Chapter 2 Configuring the HP Vectra CS PC

The HP Vectra CS PCs listed below are orderable under a single product number (which must specify a language option, i.e., D1110A, Option ABA for U.S. English), and are delivered with all of the listed hardware installed. All HP Vectra CS PCs include:

- 640-Kbytes of RAM
- A flexible disc drive (5.25 or 3.5-in.)

- One serial port and one parallel port (on processor board)
- One DIN keyboard port
- The Enhanced HP Vectra PC keyboard
- Disc cache software
- Terminal emulation software

The optional XT-compatible hard disc controller occupies Slot 7, leaving six 8-bit slots available for accessories. On models with a video adapter already installed, the

adapter occupies Slot 1, leaving six 8-bit slots available for accessories (five if a hard disc controller is also installed). The pre-installed hardware in the following table includes a 360-Kbyte, 5.25-in. flexible disc drive (HP 45811A), a 1.44-Mbyte, 3.5-in. flexible disc drive (HP 45813A), a 20-Mbyte internal hard disc subsystem (HP D1173A), and a Video Graphics Adapter (HP D1180A).

Qty.	PC	Model Number	Flexible Disc	Hard Disc	Video Adapter	Product Number	Notes
	CS	10	5.25-in.			<b>D1110A</b>	
		15	3.5-in.			<b>D1115A</b>	Orderable July 1988
		16	5.25-in.		VGA	<b>D1116A</b>	2 flexible discs
		20	5.25-in.	20 MB		<b>D1120A</b>	
		26	5.25-in.	20 MB	VGA	<b>D1126A</b>	
		27	3.5-in.	20 MB	VGA	<b>D1127A</b>	Orderable July 1988

It is possible to add any of the equipment or accessories listed in this chapter or in Chapter 6, Product Line Accessories.

### Data Storage (Internal)

- All capacities are formatted unless otherwise noted.
- Maximum number of internal data storage devices on HP Vectra CS is three.

- Maximum number of flexible disc devices on HP Vectra CS is two.
- Maximum number of internal hard disc drives on HP Vectra CS is one.

- All disc drives are half-height unless otherwise noted.

Qty.	Product Number	Description	Notes
	<b>45811A</b>	360-Kbyte, 5.25-in. flexible disc drive	Standard on HP Vectra CS Models 10, 16, 20, & 26
	<b>45813A</b>	1.44-Mbyte, 3.5-in. flexible disc drive; allows data interchange between HP Vectra and HP Touchscreen (double-sided) and IBM 3.5-in. systems	Standard on HP Vectra CS Models 15 & 27
	<b>D1173A</b>	20-Mbyte, half-height ST-506 hard disc drive subsystem (includes XT-compatible hard disc controller)	Standard on HP Vectra CS Models 20, 26, & 27
	<b>D1671A</b>	40-Mbyte tape backup drive; for use in "B" shelf only	Available Q3 1988

## Memory Enhancements and Coprocessors

Qty.	Product Number	Description	Notes
	<b>D1174A</b> Opt.001	HP Vectra CS Expanded Memory card; 1.0 Mbyte; for applications that utilize the Lotus®/Intel/Microsoft®(LIM 3.2) expanded memory specification; uses one 8-bit accessory slot	Up to 4 Expanded Memory cards maximum
	<b>D1174A</b> Opt.002	HP Vectra CS Expanded Memory card; same as D1174A Opt. 001 above, except 2.0 Mbytes	
	<b>D1008A</b>	1.0-Mbyte upgrade kit for HP Vectra CS Expanded Memory card; upgrades D1174A Opt. 001 to 2.0 Mbytes	Not applicable to D1174A Opt. 002
	<b>D1172A</b>	Intel 8087 numeric coprocessor	Uses socket on processor board

## HP-HIL Input Devices

On HP Vectra CS, an HP-HIL card (HP D1171A) must be ordered to use any HP-HIL device.

Qty.	Product Number	Description	Notes
	<b>D1171A</b>	HP-HIL accessory card and software; uses one 8-bit accessory slot	Required on all HP HP Vectra CS models to use any HP-HIL device
	<b>46060A</b>	HP Mouse	
	<b>46087B</b>	A-size digitizer tablet	
	<b>46088B</b>	B-size digitizer tablet	
	<b>45911A</b>	HP Graphics Tablet	
	<b>D1183A</b>	HP Touchscreen Plus; for use with HP Video Graphics Color Display (HP D1182A)	

## Other Accessories

Qty.	Product Number	Description	Notes
	<b>45986A</b>	Security lock; prevents removing the SPU cover or operating the keyboard when locked	
	<b>7060A</b>	HP SketchPro Graphics Tablet; uses RS-232C serial port	



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**System Software**

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<b>Qty.</b>	<b>Product Number</b>	<b>Description</b>	<b>Notes</b>
	<b>45951B</b>	HP Vectra Disc Operating System (DOS) 3.2; 5.25-in. discs; includes Personal Applications Manager (PAM) and File Manager, multi-voluming utility, and multiple character set utilities	
	<b>45951C</b>	HP Vectra Disc Operating System (DOS) 3.2; same as 45951B above except 3.5-in. discs	
	<b>45951D</b>	HP Vectra Disc Operating System (DOS) 3.3; 5.25-in. discs; includes Personal Applications Manager (PAM) and File Manager, multi-voluming utility, and multiple character set utilities	Orderable July 1988
	<b>45951E</b>	HP Vectra Disc Operating System (DOS) 3.3; same as 45951D above except 3.5-in. discs	Orderable July 1988
	<b>45954B</b>	Microsoft Windows for the HP Vectra PC (Version 2.0); 5.25-in. discs	
	<b>45954C</b>	Microsoft Windows for the HP Vectra PC (Version 2.0); 3.5-in. discs	

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## HP Vectra CS PC Configuration Summary Sheet

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Qty.	Product Number	Description	Notes
<b>PC Models</b>			
	<b>D1110A</b>	HP Vectra CS Model 10 PC (must order language option)	
	<b>D1115A*</b>	HP Vectra CS Model 15 PC (must order language option)	
	<b>D1116A</b>	HP Vectra CS Model 16 PC (must order language option)	
	<b>D1120A</b>	HP Vectra CS Model 20 PC (must order language option)	
	<b>D1126A</b>	HP Vectra CS Model 26 PC (must order language option)	
	<b>D1127A*</b>	HP Vectra CS Model 27 PC (must order language option)	
<b>Data Storage (Internal)</b>			
	<b>45811A</b>	5.25 in. 360-Kbyte flexible disc drive	
	<b>45813A</b>	3.5-in. 1.44-Mbyte flexible disc drive	
	<b>D1173A</b>	20-Mbyte hard disc subsystem	
	<b>D1671A</b>	40-Mbyte tape backup drive (available Q3 1988)	
<b>Memory Enhancements and Coprocessors</b>			
	<b>D1174A</b>	1.0-Mbyte Expanded Memory card	
	Opt.001		
	<b>D1174A</b>	2.0-Mbyte Expanded Memory card	
	Opt.002		
	<b>D1008A</b>	1.0-Mbyte Memory upgrade kit	
	<b>D1172A</b>	8087 numeric coprocessor	

\* Orderable July 1988

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## HP Vectra CS PC Configuration Summary Sheet (continued)

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Qty.	Product Number	Description	Notes
<b>HP-HIL Input Devices</b>			
	<b>D1171A</b>	HP-HIL accessory card and software	
	<b>46060A</b>	HP-HIL Mouse	
	<b>46087B</b>	A-size digitizer tablet	
	<b>46088B</b>	B-size digitizer tablet	
	<b>45911A</b>	HP-HIL Graphics Tablet	
	<b>D1183A</b>	HP Touchscreen Plus	
<b>Other Accessories</b>			
	<b>45986A</b>	Security lock	
	<b>7060A</b>	HP SketchPro Graphics Tablet	
<b>System Software</b>			
	<b>45951B</b>	HP Vectra DOS 3.2, 5.25-in. discs	
	<b>45951C</b>	HP Vectra DOS 3.2, 3.5-in. discs	
	<b>45951D*</b>	HP Vectra DOS 3.3, 5.25-in. discs	
	<b>45951E*</b>	HP Vectra DOS 3.3, 3.5-in. discs	
	<b>45954B</b>	Windows (Version 2.0), 5.25-in. discs	
	<b>45954C</b>	Windows (Version 2.0), 3.5-in. discs	

\* Orderable July 1988

General product line accessories, such as video systems, data communication accessories, external data storage, printers, plotters, and cables are listed in Chapter 6.

# Chapter 3

## Configuring HP Vectra ES and ES/12 PCs

The HP Vectra ES and ES/12 PCs listed below are orderable under a single product number (which must specify a language option, i.e. D1210A, Option ABA for U.S. English), and are delivered with all of the listed hardware installed. All HP Vectra ES and ES/12 PCs include:

- 640-Kbytes of RAM
- A flexible disc drive (5.25 or 3.5-in.)

- A four-function controller card with one serial port and one parallel port
- One HP-HIL accessory port
- One DIN keyboard port
- The Enhanced HP Vectra PC keyboard
- Disc cache software
- Terminal emulation software

The standard four-function controller card occupies Slot 7 (a 16-bit slot), leaving two 8-bit slots and four 16-bit slots available for accessories. On models with a video

adapter already installed, the adapter occupies one 16-bit slot (Slot 2), leaving two 8-bit slots and three 16-bit slots available for accessories. The pre-installed hardware in the following table includes a 1.2-Mbyte, 5.25-in. flexible disc drive (HP 45812A), a 1.44-Mbyte, 3.5-in. flexible disc drive (HP 45813A), a 20-Mbyte internal hard disc drive (HP D1296A), a 40-Mbyte internal hard disc drive (HP D1297A), and a Video Graphics Adapter (HP D1180A).

Qty.	PC	Model Number	Flexible Disc	Hard Disc	Video Adapter	Product Number	Notes
	ES	10	5.25-in.			<b>D1210A</b>	
		15	3.5-in.			<b>D1215A</b>	Orderable July 1988
		20	5.25-in.	20 MB		<b>D1220A</b>	
		26	5.25-in.	20 MB	VGA	<b>D1226A</b>	
		27	3.5-in.	20 MB	VGA	<b>D1227A</b>	Orderable July 1988
	ES/12	10	5.25-in.			<b>D1310A</b>	
		15	3.5-in.			<b>D1315A</b>	Orderable July 1988
		20	5.25-in.	20 MB		<b>D1320A</b>	
		26	5.25-in.	20 MB	VGA	<b>D1326A</b>	
		27	3.5-in.	20 MB	VGA	<b>D1327A</b>	Orderable July 1988
		40	5.25-in.	40 MB		<b>D1340A</b>	
		46	5.25-in.	40 MB	VGA	<b>D1346A</b>	
	47	3.5-in.	40 MB	VGA	<b>D1347A</b>	Orderable July 1988	

It is possible to add any of the equipment or accessories listed in this chapter or in Chapter 6, Product Line Accessories.

### Data Storage (Internal)

- All capacities are formatted unless otherwise noted.
- Maximum number of internal data storage devices on Vectra ES or ES/12 is three.

- Maximum number of flexible disc devices on Vectra ES and ES/12 is two.
- Maximum number of internal hard disc drives on Vectra ES and ES/12 is two.

- All disc drives are half-height unless otherwise noted.

Qty.	Product Number	Description	Notes
	<b>45811A</b>	360-Kbyte, 5.25-in. flexible disc drive	For use in "B" shelf only
	<b>45812A</b>	1.2-Mbyte, 5.25-in. flexible disc drive	Standard on HP Vectra ES Models 10, 20, & 26 and HP Vectra ES/12 Models 10, 20, 26, 40, & 46
	<b>45813A</b>	1.44-Mbyte, 3.5-in. flexible disc drive; allows data interchange between HP Vectra and HP Touchscreen (double-sided) and IBM 3.5-in. systems	Standard on HP Vectra ES Models 15 & 27 and Vectra ES/12 Models 15, 27, & 47
	<b>D1296A</b>	20-Mbyte, half-height ST-506 hard disc drive; includes data cable	Standard on HP Vectra ES Models 20, 26, & 27 and HP Vectra ES/12 Models 20, 26, & 27
	<b>D1297A</b>	40-Mbyte, half-height ST-506 hard disc drive; includes data cable	Standard on HP Vectra ES/12 Models 40, 46 & 47
	<b>D1671A</b>	40-Mbyte tape backup drive; for use in "B" shelf only	Available Q3 1988

## Memory Enhancements and Coprocessors

Both expanded and extended memory accessories are available for HP Vectra ES and ES/12 PCs. Up to 8-Mbytes of expanded or extended memory is supported, using a high-performance proprietary memory slot. The HP Vectra ES and ES/12 Expanded

Memory cards (HP 45944A Options 001, 002, and 003) can be used with software such as Microsoft Windows Version 2.0 (HP 45954B/C) that utilizes the Lotus/Intel/Microsoft (LIM 4.0) expanded memory specification. The same expanded memory cards can also be configured as extended memory for software such as OS/2 version

1.0 (HP D1302A) that requires extended memory. Extended memory is also available in 0.5-Mbyte and 1.0-Mbyte increments, using the HP Vectra ES and ES/12 Extended Memory cards (HP 45973A and 45974A) in standard 16-bit accessory slots.

Qty.	Product Number	Description	Notes
	<b>45944A</b> Opt.001	HP Vectra ES and ES/12 Expanded Memory card; 2.0-Mbyte; for applications that utilize the Lotus/Intel/Microsoft (LIM 4.0) expanded memory specification; expandable up to 8.0 Mbytes total; does NOT occupy a standard accessory slot	Operates at 12 MHz on HP Vectra ES/12 PC and at 8 MHz on HP Vectra ES PC; uses a proprietary 16-bit slot
	<b>45944A</b> Opt.002	Same as 45944A Option 001 above, except 4.0 Mbytes	
	<b>45944A</b> Opt.003	Same as 45944A Option 001 above, except 8.0 Mbytes	
	<b>D1354A</b>	2.0-Mbyte expansion module for use with HP 45944A Options 001 and 002, up to a maximum of 8.0 Mbyte per card	Not applicable to 45944A Option 003
	<b>45973A</b>	0.5-Mbyte Extended Memory card; for applications that require extended memory and utilize electronic RAM discs; uses one 16-bit accessory slot	
	<b>45974A</b>	Same as 45973A above, except 1.0 Mbyte	
	<b>D1387A</b>	Intel 80287 numeric coprocessor; 8 MHz	Uses socket on processor board

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**HP-HIL Input Devices**

<b>Qty.</b>	<b>Product Number</b>	<b>Description</b>	<b>Notes</b>
	<b>46060A</b>	HP Mouse	
	<b>46087B</b>	A-size digitizer tablet	
	<b>46088B</b>	B-size digitizer tablet	
	<b>45911A</b>	HP Graphics Tablet	
	<b>92916A</b>	HP Bar Code Reader	
	<b>D1183A</b>	HP Touchscreen Plus; for use with HP Video Graphics Color Display (HP D1182A)	

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**Other Accessories**

<b>Qty.</b>	<b>Product Number</b>	<b>Description</b>	<b>Notes</b>
	<b>45986A</b>	Security lock; prevents removing the SPU cover or operating the keyboard when locked	
	<b>7060A</b>	HP SketchPro Graphics Tablet; uses RS-232C serial port	
	<b>C1406A</b>	HP Vectra PC Keyboard with DIN connector	Optional keyboard for HP Vectra ES and ES/12 PCs

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**System Software**

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<b>Qty.</b>	<b>Product Number</b>	<b>Description</b>	<b>Notes</b>
	<b>45951B</b>	HP Vectra Disc Operating System (DOS) 3.2; 5.25-in. discs; includes Personal Applications Manager (PAM) and File Manager, multi-voluming utility, and multiple character set utilities	
	<b>45951C</b>	HP Vectra Disc Operating System (DOS) 3.2; same as 45951B above except 3.5-in. discs	
	<b>45951D</b>	HP Vectra Disc Operating (DOS) 3.3; 5.25-in. discs; includes Personal Applications Manager (PAM) and File Manager, multi-voluming utility, and multiple character set utilities	Orderable July 1988
	<b>45951E</b>	HP Vectra Disc Operating System(DOS) 3.3; same as 45951D above except 3.5-in. discs.	Orderable July 1988
	<b>45954B</b>	Microsoft® Windows for the HP Vectra PC (Version 2.0); 5.25-in. discs; supports HP NewWave environment	
	<b>45954C</b>	Microsoft Windows for the HP Vectra PC (Version 2.0); 3.5-in. discs; supports HP NewWave environment	
	<b>D1302A</b> Opt.AA9	Microsoft Operating System/2 (OS/2) 1.0 for the HP Vectra PC; 5.25-in. discs	Must order language option (i.e. ABA for U.S. English)
	<b>D1302A</b> Opt.AAD	Microsoft Operating System/2 (OS/2) 1.0 for the HP Vectra PC; 3.5-in. discs	Must order language option (i.e. ABA for U.S. English)

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## HP Vectra ES and ES/12 PC Configuration Summary Sheet

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Qty.	Product Number	Description	Notes
<b>PC Models:</b>			
	<b>D1210A</b>	HP Vectra ES Model 10 PC (must order language option)	
	<b>D1215A*</b>	HP Vectra ES Model 15 (must order language option)	
	<b>D1220A</b>	HP Vectra ES Model 20 (must order language option)	
	<b>D1226A</b>	HP Vectra ES Model 26 (must order language option)	
	<b>D1227A*</b>	HP Vectra ES Model 27 (must order language option)	
	<b>D1310A</b>	HP Vectra ES/12 Model 10 (must order language option)	
	<b>D1315A*</b>	HP Vectra ES/12 Model 15 (must order language option)	
	<b>D1320A</b>	HP Vectra ES/12 Model 20 (must order language option)	
	<b>D1326A</b>	HP Vectra ES/12 Model 26 (must order language option)	
	<b>D1327A*</b>	HP Vectra ES/12 Model 27 (must order language option)	
	<b>D1340A</b>	HP Vectra ES/12 Model 40 (must order language option)	
	<b>D1346A</b>	HP Vectra ES/12 Model 46 (must order language option)	
	<b>D1347A*</b>	HP Vectra ES/12 Model 47 (must order language option)	
<b>Data Storage (Internal)</b>			
	<b>45811A</b>	5.25 in. 360-Kbyte flexible disc drive	
	<b>45812A</b>	5.25 in. 1.2-Mbyte flexible disc drive	
	<b>45813A</b>	3.5 in. 1.44-Mbyte flexible disc drive	
	<b>D1296A</b>	20-Mbyte hard disc drive	
	<b>D1297A</b>	40-Mbyte hard disc drive	
	<b>D1671A</b>	40-Mbyte tape backup drive (available Q3 1988)	

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\* Orderable July 1988

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## HP Vectra ES and ES/12 PC Configuration Summary Sheet (continued)

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Qty.	Product Number	Description	Notes
<b>Memory Enhancements and Coprocessors</b>			
	<b>45944A</b> Opt.001	2.0-Mbyte Expanded Memory card	
	<b>45944A</b> Opt.002	4.0-Mbyte Expanded Memory card	
	<b>45944A</b> Opt.003	8.0-Mbyte Expanded Memory card	
	<b>D1354A</b>	2.0-Mbyte Memory expansion module	
	<b>45973A</b>	0.5-Mbyte Extended Memory card	
	<b>45974A</b>	1.0-Mbyte Extended Memory card	
	<b>D1387A</b>	80287 numeric coprocessor	
<b>HP-HIL Input Devices:</b>			
	<b>46060A</b>	HP-HIL Mouse	
	<b>46087B</b>	A-size digitizer tablet	
	<b>46088B</b>	B-size digitizer tablet	
	<b>45911A</b>	HP-HIL Graphics Tablet	
	<b>92916A</b>	HP Bar Code Reader	
	<b>D1183A</b>	HP Touchscreen Plus	
<b>Other Accessories</b>			
	<b>45986A</b>	Security lock	
	<b>7060A</b>	HP SketchPro Graphics Tablet	
	<b>C1406A</b>	HP Vectra PC Keyboard with DIN connector	
<b>System Software:</b>			
	<b>45951B</b>	HP Vectra DOS 3.2, 5.25 in. discs	
	<b>45951C</b>	HP Vectra DOS 3.2, 3.5 in. discs	
	<b>45951D*</b>	HP Vectra DOS 3.3, 5.25 in. discs	
	<b>45951E*</b>	HP Vectra DOS 3.3, 3.5 in. discs	
	<b>45954B</b>	Windows (Version 2.0), 5.25 in. discs	
	<b>45954C</b>	Windows (Version 2.0), 3.5 in. discs	
	<b>D1302A</b>	Microsoft OS/2 1.0, 5.25 in. discs	
	Opt.AA9	(must order language option)	
	<b>D1302A</b>	Microsoft OS/2 1.0, 3.5 in. discs	
	Opt.AAD	(must order language option)	

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\* Orderable July 1988

General product line accessories, such as video systems, data communication accessories, external data storage, printers, plotters and cables are listed in Chapter 6.

# Chapter 4

## Configuring HP Vectra RS/16 and RS/20 PCs

The HP Vectra RS/16 and RS/20 PCs listed below are orderable under a single product number (which must specify a language option, i.e. D1500A, Option ABA for U.S. English), and are delivered with all of the listed hardware installed. All HP Vectra RS/16 and RS/20 PCs include:

- 1-Mbyte of RAM on RS/16 Model 40 and RS/20 Model 40
- 2-Mbytes of RAM on all other RS/16 and RS/20 models
- A hard disc drive (40, 103, 155, or 310-Mbytes)
- One 1.2-Mbyte, 5.25-in. flexible disc drive

- A four-function controller card (ST-506 or ESDI) with one serial port and one parallel port
- One HP-HIL accessory port
- One DIN keyboard port
- The Enhanced Vectra PC keyboard
- VGA video extension cable
- Disc cache software
- Volume expansion software
- Expanded memory manager software
- Terminal emulation software

The standard four-function controller card occupies Slot 8 (a 16-bit slot), leaving two 8-bit slots and

five 16-bit slots available for accessories. On models with a video adapter already installed, the adapter occupies one 16-bit slot (Slot 2), leaving two 8-bit slots and four 16-bit slots available for accessories. The pre-installed hardware in the following table includes a 1.2-Mbyte, 5.25-in. flexible disc drive (HP 45812A), a 40-Mbyte internal hard disc drive (HP D1297A), a 103-Mbyte internal hard disc drive (HP D1674A), a 155-Mbyte internal hard disc drive (HP D1675A), a 310-Mbyte internal hard disc drive (HP D1676A), and a Video Graphics Adapter (HP D1180A).

Qty.	PC	Model Number	Flexible Disc	Hard Disc	Video Adapter	Product Number	Notes
	<b>RS/16</b>	40	5.25-in.	40MB		<b>D1500A</b>	1 MB RAM
		100	5.25-in.	103MB (ESDI)		<b>D1502A</b>	2 MB RAM
		106	5.25-in.	103MB (ESDI)	VGA	<b>D1501A</b>	2 MB RAM
	<b>RS/20</b>	40	5.25-in.	40MB		<b>D1600A</b>	1 MB RAM
		100	5.25-in.	103MB (ESDI)		<b>D1602A</b>	2 MB RAM
		106	5.25-in.	103MB (ESDI)	VGA	<b>D1601A</b>	2 MB RAM
		150	5.25-in.	155MB (ESDI)		<b>D1603A</b>	2 MB RAM
		300	5.25-in.	310MB (ESDI)		<b>D1604A</b>	2 MB RAM

(The pre-assembled HP Vectra RS/20 PC Power User system is listed in Chapter 5.)

It is possible to add any of the equipment or accessories listed in this chapter or in Chapter 6, Product Line Accessories.

## Data Storage (Internal)

- All capacities are formatted unless otherwise noted.
- Maximum number of internal data storage devices on HP Vectra RS/16 and RS/20 PCs is five.

- Maximum number of flexible disc devices on HP Vectra RS/16 and RS/20 is four.
- Maximum number of internal hard disc drives on HP Vectra RS/16 and RS/20 is two.
- The 40-Mbyte hard disc drive is half-height, and the 103-Mbyte and higher ESDI hard disc drives are full height.

- The Flexible Disc Expander (HP D1678A) is required for configurations with three or more flexible disc devices.
- The 40-Mbyte tape backup drive operates as a flexible disc device.

Qty.	Product Number	Description	Notes
	<b>45811A</b>	360-Kbyte, 5.25-in. flexible disc drive	
	<b>45812A</b>	1.2-Mbyte, 5.25-in. flexible disc drive	Standard on all HP Vectra RS/16 and RS/20 models
	<b>45813A</b>	1.44-Mbyte, 3.5-in. flexible disc drive; allows data interchange between HP Vectra and HP Touchscreen (double-sided) and IBM 3.5-in. systems	Included in HP Vectra RS/20 PC Power User Model
	<b>D1297A</b>	40-Mbyte, half-height ST-506 hard disc drive; includes data cable	Standard on HP Vectra RS/16 Model 40 and RS/20 Model 40
	<b>D1674A</b>	103-Mbyte, full-height ESDI hard disc drive; includes data cable	Standard on HP Vectra RS/16 Models 100 & 106 and RS/20 Models 100 & 106
	<b>D1675A</b>	155-Mbyte, full-height ESDI hard disc drive; includes data cable	Standard on HP Vectra RS/20 Model 150
	<b>D1676A</b>	310-Mbyte, full-height ESDI hard disc drive; includes data cable	Standard on HP Vectra RS/20 Model 300
	<b>D1677A</b>	Four-function ESDI controller card;  required to upgrade 40-Mbyte HP Vectra RS/16 and RS/20 models with ST-506 controller to 103-Mbytes or greater	
	<b>D1678A</b>	Flexible Disc Expander card; required to support more than two flexible disc devices (including 40-Mbyte tape backup, D1671A); used one 8-bit accessory slot	
	<b>D1671A</b>	40-Mbyte tape backup drive; requires Flexible Disc Expander (D1678A) if two other flexible disc devices are also used.	Available Q3 1988



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### Memory Enhancements and Coprocessors

The standard 1 or 2-Mbytes of RAM in HP Vectra RS/16 and RS/20 PCs can be upgraded to either 2 Mbytes, 4 Mbytes, 8 Mbytes,

10 Mbytes, or 16 Mbytes on the processor board. To upgrade to the 8-Mbyte and 16-Mbyte configurations, the standard 1 or 2 Mbytes of RAM (and any 1-Mbyte memory upgrade kits previously installed) must be removed and replaced

with one or two 8-Mbyte memory upgrade kits. The HP Vectra RS/16 and RS/20 memory upgrade paths are shown below.

#### For models with 1 Mbyte RAM standard:

	2 MB	4 MB	8 MB	10 MB	16 MB
1-Mbyte Memory Upgrade Kit	1	3		1	
8-Mbyte Memory Upgrade Kit			1*	1	2*

\* Must remove standard 1 Mbyte RAM (and any 1-Mbyte memory upgrade kits)

#### For models with 2 Mbytes RAM standard:

	4 MB	8 MB	10 MB	16 MB
1-Mbyte Memory Upgrade Kit	2			
8-Mbyte Upgrade Kit		1*	1	2*

\* Must remove standard 2 Mbytes RAM (and any 1-Mbyte memory upgrade kits)

*HP Vectra RS/16 & RS/20 PC Memory Upgrade Path*

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**Memory Enhancements and Coprocessors (continued)**

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<b>Qty.</b>	<b>Product Number</b>	<b>Description</b>	<b>Notes</b>
	<b>D1540A</b>	1-Mbyte memory upgrade kit for HP Vectra RS/16 PC; includes four 256-Kbyte modules (100-ns)	
	<b>D1640A</b>	1-Mbyte memory upgrade kit for HP Vectra RS/20 PC; includes four 256-Kbyte modules (80-ns)	
	<b>D1541A</b>	8-Mbyte memory upgrade kit for HP Vectra RS/16 PC; includes eight 1-Mbyte modules (100-ns)	
	<b>D1641A</b>	8-Mbyte memory upgrade kit for HP Vectra RS/20 PC; includes eight 1-Mbyte modules (80-ns)	
	<b>D1570A</b>	Intel 80387 numeric coprocessor for HP Vectra RS/16 PC (16-MHz)	Uses socket on motherboard
	<b>D1670A</b>	Intel 80387 numeric coprocessor for HP Vectra RS/20 PC (20-MHz)	Uses socket on motherboard

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**HP-HIL Input Devices**

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<b>Qty.</b>	<b>Product Number</b>	<b>Description</b>	<b>Notes</b>
	<b>46060A</b>	HP Mouse	
	<b>46087B</b>	A-size digitizer tablet	
	<b>46088B</b>	B-size digitizer tablet	
	<b>45911A</b>	HP Graphics Tablet	
	<b>92916A</b>	HP Bar Code Reader	
	<b>D1183A</b>	HP Touchscreen Plus; for use with HP Video Graphics Color Display (HP D1182A)	

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**Other Accessories**

Qty.	Product Number	Description	Notes
	7060A	HP SketchPro Graphics Tablet; uses RS-232C serial port	

**System Software**

Qty.	Product Number	Description	Notes
	45951B	HP Vectra Disc Operating System (DOS) 3.2; 5.25-in. discs; includes Personal Applications Manager (PAM), File Manager, and multiple character set utilities	
	45951C	HP Vectra Disc Operating System (DOS) 3.2; same as 45951B above except 3.5-in. discs	
	45951D	HP Vectra Disc Operating System (DOS) 3.3; 5.25-in. discs; includes Personal Applications Manager (PAM), File Manager, and multiple character set utilities	Orderable July 1988
	45951E	HP Vectra Disc Operating System (DOS) 3.3; same as 45951D above except 3.5-in. discs	Orderable July 1988
	45954B	Microsoft Windows for the HP Vectra PC (Version 2.0); 5.25-in. discs; supports HP NewWave environment	
	45954C	Microsoft Windows for the HP Vectra PC (Version 2.0); 3.5-in. discs; supports HP NewWave environment	
	D1651A	Microsoft Windows/386 Presentation Manager; 5.25-in. and 3.5-in. discs; supports multitasking DOS applications	Must use DOS 3.2 or later
	D1302A Opt.AA9	Microsoft Operating System/2 (OS/2) 1.0 for the HP Vectra PC; 5.25-in. discs	Must order language option (i.e. ABA for U.S. English)
	D1302A Opt.AAD	Microsoft Operating System/2 (OS/2) 1.0 for the HP Vectra PC; 3.5-in. discs	Must order language option (i.e. ABA for U.S. English)

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## HP Vectra RS/16 and RS/20 PC Configuration Summary Sheet

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Qty.	Product Number	Description	Notes
<b>PC Models</b>			
	<b>D1500A</b>	HP Vectra RS/16 Model 40 PC (must order language option)	
	<b>D1502A</b>	HP Vectra RS/16 Model 100 PC (must order language option)	
	<b>D1501A</b>	HP Vectra RS/16 Model 106 PC (must order language option)	
	<b>D1600A</b>	HP Vectra RS/20 Model 40 PC (must order language option)	
	<b>D1602A</b>	HP Vectra RS/20 Model 100 PC (must order language option)	
	<b>D1601A</b>	HP Vectra RS/20 Model 106 PC (must order language option)	
	<b>D1603A</b>	HP Vectra RS/20 Model 150 PC (must order language option)	
	<b>D1604A</b>	HP Vectra RS/20 Model 300 PC (must order language option)	
<b>Data Storage (Internal)</b>			
	<b>45811A</b>	5.25-in. 360-Kbyte flexible disc drive	
	<b>45812A</b>	5.25-in. 1.2-Mbyte flexible disc drive	
	<b>45813A</b>	3.5-in. 1.44-Mbyte flexible disc drive	
	<b>D1297A</b>	40-Mbyte hard disc drive	
	<b>D1674A</b>	103-Mbyte hard disc drive	
	<b>D1675A</b>	155-Mbyte hard disc drive	
	<b>D1676A</b>	310-Mbyte hard disc drive	
	<b>D1677A</b>	Four-function ESDI controller card	
	<b>D1678A</b>	Flexible Disc Expander card	
	<b>D1671A</b>	40-Mbyte tape backup drive (available Q3 1988)	

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**HP Vectra RS/16 and RS/20 PC Configuration Summary Sheet (continued)**

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<b>Qty.</b>	<b>Product Number</b>	<b>Description</b>	<b>Notes</b>
<b>Memory Enhancements and Coprocessors</b>			
	<b>D1540A</b>	1-Mbyte memory upgrade kit for HP Vectra RS/16 (100-ns)	
	<b>D1640A</b>	1-Mbyte memory upgrade kit for HP Vectra RS/20 (80-ns)	
	<b>D1541A</b>	8-Mbyte memory upgrade kit for HP Vectra RS/16 (100-ns)	
	<b>D1641A</b>	8-Mbyte memory upgrade kit for HP Vectra RS/20 (80-ns)	
	<b>D1570A</b>	80387 numeric coprocessor for HP Vectra RS/16, 16-MHz	
	<b>D1670A</b>	80387 numeric coprocessor for HP Vectra RS/20, 20-MHz	
<b>HP-HIL Input Devices</b>			
	<b>46060A</b>	HP-HIL Mouse	
	<b>46087B</b>	A-size digitizer tablet	
	<b>46088B</b>	B-size digitizer tablet	
	<b>45911A</b>	HP-HIL Graphics Tablet	
	<b>92916A</b>	HP Bar Code Reader	
	<b>D1183A</b>	HP Touchscreen Plus	
<b>Other Accessories</b>			
	<b>7060A</b>	HP SketchPro Graphics Tablet	
<b>System Software</b>			
	<b>45951B</b>	HP Vectra DOS 3.2, 5.25-in. discs	
	<b>45951C</b>	HP Vectra DOS 3.2, 3.5-in. discs	
	<b>45951D*</b>	HP Vectra DOS 3.3, 5.25-in. discs	
	<b>45951E*</b>	HP Vectra DOS 3.3, 3.5-in. discs	
	<b>45954B</b>	Windows (Version 2.0), 5.25-in. discs	
	<b>45954C</b>	Windows (Version 2.0), 3.5-in. discs	
	<b>D1651A</b>	Windows/386, 5.25-in. and 3.5-in. discs	
	<b>D1302A</b> Opt.AA9	Microsoft OS/2 1.0, 5.25-in. discs (must order language option)	
	<b>D1302A</b> Opt.AAD	Microsoft OS/2 1.0, 3.5-in. discs (must order language option)	

\* Orderable July 1988

General product line accessories, such as video systems, data communication accessories, external data storage, printers, plotters and cables are listed in Chapter 6.

# Chapter 5

## Pre-Assembled Systems

### HP Vectra RS/20 PC Power User

A special "Power User" HP Vectra RS/20 model can be ordered using one product number (which must specify a language option, i.e. D1606B, Option ABA for U.S. English) for users that need a fully-loaded system. The HP Vectra RS/20 PC Power User pre-assembled system is also recommended for demo and consignment purposes. The HP Vectra RS/20 PC Power User includes:

- 4 Mbytes of RAM (256-Kbyte, 80-ns modules)
- One 103-Mbyte ESDI hard disc drive (HP D1674A)
- One 1.2-Mbyte, 5.25-in. flexible disc drive (HP 45812A)

- One 1.44-Mbyte, 3.5-in. flexible disc drive (HP 45813A)
  - A four-function ESDI controller card with one serial port and one parallel port (HP D1677A)
  - A 20-MHz, 80387 numeric coprocessor (HP D1670A)
  - Dual-serial interface card (HP 24541B)
  - One HP-HIL accessory port
  - One DIN keyboard port
  - The Enhanced HP Vectra PC keyboard
  - HP Mouse (HP 46060A)
  - Video Graphics Adapter with 512 Kbytes RAM (HP D1180A Opt. 1A7)
  - Video Graphics Color Display (HP D1182A)
  - Tilt/swivel base (HP 82959S)
  - VGA video extension cable (HP D1184A)
  - HP Vectra DOS 3.2 (HP 45951B)\*
  - Microsoft Windows/386 (HP D1651A)
  - Disc cache software
  - Volume expansion software
  - Expanded memory manager software
  - Terminal emulation software
- \* HP Vectra DOS 3.3 (HP 45951D) will replace DOS 3.2 in July 1988
- The four-function controller card occupies Slot 8 (a 16-bit slot), the dual serial interface card occupies an 8-bit slot (Slot 3) and the Video Graphics Adapter occupies Slot 2 (a 16-bit slot), leaving one 8-bit slot and four 16-bit slots available for other accessories.

Qty.	Product Number	Description	Notes
	D1606B	HP Vectra RS/20 PC Power User; contains all of the above hardware, software and accessories; recommended for demo and consignment (must order language option)	HP Vectra DOS 3.3 will replace DOS 3.2 in July 1988

It is possible to add any of the equipment or accessories listed in Chapter 4 (Configuring HP Vectra RS/16 and RS/20 PCs) or Chapter 6 (Product Line Accessories).

## HP Vectra Publisher PC

For desktop publishing applications, there are two HP Vectra Publisher PC models that can be ordered with a single product number, and are delivered as complete systems. A PC model option, monitor option, and Personality Pack language option must also be ordered. For example, to order an

HP Vectra Publisher PC with HP Vectra ES/12 Model 22, Enhanced Graphics Display and U.S. English Personality Pack, order product number D1200A and Options 017, 052 and ABA. There are three PC model options and two monitor options. The language options for the HP Vectra Publisher PC Personality Packs include:

- The Enhanced HP Vectra PC

keyboard

- HP Mouse (HP 46060A)
- HP Vectra DOS 3.2 (HP 45951B)
- Microsoft Windows (HP 45954B)
- Aldus PageMaker® software (HP 45964A)
- Disc cache software
- Volume expansion software
- Terminal emulation software

Qty.	Product Number	Description	Notes
	<b>D1200A</b>	HP Vectra Publisher PC; pre-assembled desktop publishing system	Must order one PC model option, one monitor option, and one Personality Pack option
<b>PC model options (Must order one)</b>			
	Opt.011	HP Vectra ES Model 21; includes 640 Kbytes of RAM, a 1.2-Mbyte, 5.25-in. flexible disc drive, 20-Mbyte hard disc drive and HP Multimode video adapter	
	Opt.017	HP Vectra ES/12 Model 22; includes 640 Kbytes of RAM, a 1.2-Mbyte 5.25-in. flexible disc drive, 20-Mbyte hard disc drive and EGA video adapter	
	Opt.014	HP Vectra ES/12 Model 42; includes 640 Kbytes of RAM, a 1.2-Mbyte 5.25-in. flexible disc drive, 40-Mbyte hard disc drive and EGA video adapter	
<b>Monitor options (Must order one)</b>			
	Opt.051	12-inch Monochrome monitor (HP 35731A)	Order with PC model option 011
	Opt.052	13-inch HP Enhanced Graphics Display (HP 35743A)	Order with PC model option 017 or 014
<b>Personality Pack option (Must order one)</b>			
	Opt.ABA	U.S. English Personality Pack; includes the Enhanced HP Vectra PC keyboard, HP Mouse (HP 46060A), HP Vectra DOS 3.2 (HP 45951B), Microsoft Windows (HP 45954B), Aldus PageMaker® software (HP 45964A), Disc cache software, Volume expansion software and Terminal emulation software	

It is possible to add any of the equipment or accessories listed in Chapter 3 (Configuring HP Vectra ES and ES/12 PCs) or Chapter 6 (Product Line Accessories).

# Chapter 6

## Product Line

### Accessories

#### Video Systems

Qty.	Product Number	Description	Notes
	<b>D1180A</b>	HP Video Graphics Adapter; 256 Kbytes of RAM; supports compatibility modes up to 800 × 600 resolution with 16 colors or 16 shades of gray; 132-column text mode; includes utilities disc in 5.25-in. and 3.5-in. formats; uses one 8 or 16-bit accessory slot	
	<b>D1180A</b> Opt.1A7	Same as D1180A above, except 512 Kbytes of RAM and support for 256 colors or 64 shades of gray in 640 × 480 resolution mode	
	<b>D1181W</b>	HP Monochrome Video Graphics Display; 14-in. screen; supports up to 640 × 480 resolution; displays 16 shades of gray with HP D1180A and 64 shades of gray with HP D1180A Option 1A7; soft-white phosphor; built-in tilt/swivel base	
	<b>D1181G</b>	Same as D1181W above, except with green phosphor	
	<b>D1181A</b>	Same as D1181W above, except with amber phosphor	
	<b>D1182A</b>	HP Video Graphics Color Display; 14-in. screen; supports up to 640 × 480 resolution; displays 16 colors with HP D1180A and 256 colors with HP D1180A Option 1A7	
	<b>82959S</b>	Tilt/swivel base for HP Video Graphics Color Display (HP D1182A)	
	<b>D1184A</b>	VGA video extension cable, 2-meters; for use with HP Video Graphics Displays (HP D1181W/G/A and HP D1182A)	Orderable July 1988

**Interface and Data  
Communication Accessories**

- Maximum number of I/O ports on HP Vectra CS PC is two serial, one parallel.

- Maximum number of I/O ports on all other Vectra PCs is four serial, two parallel.
- All HP Vectra PCs have one serial and one parallel port standard.

Qty.	Product Number	Description	Notes
	24540B	Serial/Parallel interface; includes one 9-pin male RS-232C serial port and one 25-pin female Centronics parallel port; uses one 8-bit accessory slot	
	24541B	Dual Serial interface; includes one 9-pin male RS-232C serial port and one 25-pin female RS-232C/422 serial port; uses one 8-bit accessory slot	
	50920A	HP IRMA 3278/79 Emulator card; provides hardware and software to emulate IBM 3278 or 3279 terminals; uses one 8-bit accessory slot	
	82300A	HP BASIC Language Processor for instrument control and other HP BASIC applications; runs same BASIC as Series 200/300; includes plug-in 68000 board with 512 Kbytes of RAM; HP-IB interface and HP BASIC 5.0; uses one 8 or 16-bit accessory slot	
	24550A	Internal 1200-bps Modem with Crosstalk™ XVI software; Bell 212A compatible; uses one 8-bit accessory slot	
	24551A	Internal 2400-bps Modem with Crosstalk XVI software; Bell 212A, V.22 and V.22bis compatible; uses one 8-bit accessory slot	
	24551B	Internal 2400-bps Modem; same as 24551A, except without Crosstalk XVI software; uses one 8-bit accessory slot	
	82973A	HP-IL Portable-Desktop Link card; uses one 8-bit accessory slot	

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**Data Storage (External)**

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<b>Qty.</b>	<b>Product Number</b>	<b>Description</b>	<b>Notes</b>
	<b>9144A</b>	67-Mbyte, 1/4-in. cartridge tape backup system; requires HP 88500A	
	<b>88500A</b>	Disc/tape interface (HP-IB cable and software included); uses one 8-bit accessory slot	

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**Printers and Plotters**

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<b>Qty.</b>	<b>Product Number</b>	<b>Description</b>	<b>Notes</b>
	<b>2225C</b>	HP ThinkJet personal printer; near letter-quality printing and graphics; Centronics interface; includes power cord	See note 1
	<b>2225D</b>	HP ThinkJet personal printer; same as 2225C except for RS-232C interface	See note 2
	<b>2228A</b>	HP QuietJet printer; near letter-quality printing and graphics; RS-232C and Centronics interfaces	See note 3
	<b>2227A</b>	HP QuietJet printer; same as 2228A except for 15-in. carriage to accommodate spreadsheets; RS-232C and Centronics interfaces	See note 3
	<b>2276A</b>	HP DeskJet printer; laser-quality inkjet printer; RS-232C and Centronics interfaces	See note 3
	<b>33440A</b>	HP LaserJet Series II printer; publication-quality printing and graphics; interchangeable font cartridges; two font cartridge slots; extended I/O slot; RS-232C and Centronics interfaces; memory expansion up to 4 Mbytes	See note 3
	<b>2603A</b>	HP Full-font Daisywheel impact printer; 48 characters per second; interchangeable print wheels; RS-232C interface	See note 2
	<b>2235A</b>	HP RuggedWriter 480 printer; prints letter-quality text; RS-232C and Centronics interfaces	See note 3

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## Printers and Plotters (continued)

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Qty.	Product Number	Description	Notes
	<b>3630A</b> Opt.001	HP PaintJet color graphics printer; produces text and graphics with 180 × 180 dpi resolution; supports up to 330 colors; RS-232C interface	See note 2
	<b>3630A</b> Opt.004	HP PaintJet color graphics printer; same as 3630A Opt. 001 above except Centronics interface	See note 1
	<b>7440A</b> Opt.001	HP ColorPro plotter; 8 pens; transparencies or paper medium; A-size; RS-232C interface	See note 2
	<b>7475A</b> Opt.001	Graphics plotter; 6 pens; transparencies or paper medium; A4/A and A3/B size; RS-232C interface	See note 2
	<b>7550A</b>	HP high-performance plotter; 8 pens; transparencies or paper medium; vellum or polyester film; automatic sheet feed; RS-232C and HP-IB interfaces	See note 4
	<b>7570A</b>	HP DraftPro plotter; RS-232C interface	See note 2
	<b>7595A</b>	HP DraftMaster I plotter; RS-232C, RS-422A, and HP-IB interfaces	See note 4
	<b>7576A</b>	HP DraftMaster II plotter; A/E size with roll-feed; RS-232C, RS-422A, and HP-IB interfaces	See note 4

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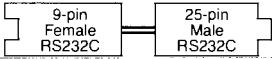

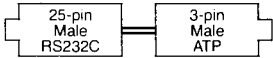
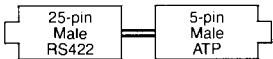









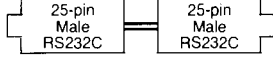
Notes:

1. Requires one parallel (Centronics) port on HP Vectra PCs.
2. Requires one serial (RS-232C) port on HP Vectra PCs.
3. Requires either one parallel (Centronics) port or one serial (RS-232C) port on HP Vectra PCs.
4. Requires either one serial (RS-232C or RS-422A) port or one HP-IB port on HP Vectra PCs.

## Cables

The following table is a listing of the proper cables for connecting HP Vectra PCs to various printers, plotters, modems and the HP 3000. The correct number and type of

I/O ports must be configured for each PC model. Refer to the preceding section on Interface and Data Communication Accessories in this chapter for additional I/O cards.

Vectra PC to:	Description	Connector Description	Length	Original system cable no.	Order cable no.
<b>HP 3000</b>	HP 3000 systems. Shielded.		9.9 ft. (3.0 m)	24542M	24542M*
	HP 3000 systems. Shielded.		16.7 ft. (5.0 m) 50.0 ft. (15.0 m)	(13242N)	13242-60001** 92218A**
	RS232C interface cable for HP 3000 ATP.		16.7 ft. (5.0 m)	(13242X)	92218D**
	RS422 interface cable for HP 3000 ATP.		16.7 ft. (5.0 m)	13242P	13242P**
<b>Modems</b>	US/European modems. Shielded.		9.9 ft. (3.0 m)	24542M	24542M*
	US modems. Shielded.		16.7 ft. (5.0 m) 50.0 ft. (15.0 m)	(13242N)	13242-60001** 92218A**
	European modems. Shielded.		16.7 ft. (5.0 m) 50.0 ft. (15.0 m)	(13242M)	13242-60002** 92218B**
<b>Printers</b>	RS232C printer cable for 2225D, 2601A Opt. 826, 2603A, 2686A, 2686A Opt 300, 2932A, 2934A. Shielded.		9.9 ft. (3.0 m)	24542G	24542G*
	RS232C printer cable for 2225D, 2601A Opt. 826, 2603A, 2686A, 2686A Opt 300, 2932A, 2934A. Shielded.		16.7 ft. (5.0 m)	(13242G)	13242-60010**
	Parallel (Centronics) printer cable for 2225C, 2686A Opt 300, 2932A Opt 042, 2934A Opt 042. Shielded.		6.6 ft. (2.0 m)	24542D	24542D***
<b>Plotters</b>	RS232C plotter cable for 7440A Opt 001, 7470A Opt 001, 7475A Opt 001, DraftPro or 758X. Shielded.		9.9 ft. (3.0 m)	24542G	24542G*
	RS232C plotter cable for 7440A Opt 001, 7470A Opt 001, 7475A Opt. 001, DraftPro or 758X. Shielded.		3.9 ft. (1.2 m) 16.7 ft. (5.0 m)	(13242G)	17255M** 13242-60010**
	RS232 cable for 7510A or 7550A. Shielded.		9.9 ft. (3.0 m)	24542H	24542H*
	RS232 cable for 7510A or 7550A. Shielded.		3.9 ft. (1.2 m)	17255D	17255D**

\*Requires built-in serial port, HP 24540A serial/parallel or 24541B dual RS232/422 interface card (see page 124). For terminal emulation, AdvanceLink required (see P/N 68333F).

\*\*Requires HP 24541B dual RS232/422 interface card (see page 124). For terminal emulation, AdvanceLink required (see P/N 68333F).

\*\*\*Requires built-in serial port or HP 24540B serial/parallel interface card.



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## Product Line Accessories Summary Sheet

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Qty.	Product Number	Description	Notes
<b>Video Systems</b>			
	<b>D1180A</b>	HP Video Graphics Adapter, 256 Kbytes RAM	
	<b>D1180A Opt.1A7</b>	HP Video Graphics Adapter, 512 Kbytes RAM	
	<b>D1181W</b>	HP Monochrome Video Graphics Display (soft-white)	
	<b>D1181G</b>	HP Monochrome Video Graphics Display (green)	
	<b>D1181A</b>	HP Monochrome Video Graphics Display (Amber)	
	<b>D1182A</b>	HP Video Graphics Color Display	
	<b>82959S</b>	Tilt/swivel base for HP Video Graphics Color Display	
	<b>D1184A*</b>	VGA video extension cable	
<b>Interface and Data Communication Accessories</b>			
	<b>24540B</b>	Serial/Parallel interface card	
	<b>24541B</b>	Dual Serial interface card	
	<b>50920A</b>	HP IRMA 3278/79 Emulator card	
	<b>82300A</b>	HP BASIC Language Processor card	
	<b>24550A</b>	1200-bps Modem with Crosstalk	
	<b>24551A</b>	2400-bps Modem with Crosstalk	
	<b>24551B</b>	2400-bps Modem without Crosstalk	
	<b>82973A</b>	HP-IL Portable-Desktop Link card	
<b>Data Storage (External)</b>			
	<b>9144A</b>	67-Mbyte, 1/4-in. cartridge tape backup	
	<b>88500A</b>	Disc/tape interface	

\* Orderable July 1988

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**Product Line Accessories Summary Sheet (continued)**

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<b>Qty.</b>	<b>Product Number</b>	<b>Description</b>	<b>Notes</b>
<b>Printers and Plotters</b>			
	<b>2225C</b>	HP ThinkJet printer (Centronics)	
	<b>2225D</b>	HP ThinkJet printer (RS-232C)	
	<b>2228A</b>	HP QuietJet printer	
	<b>2227A</b>	HP QuietJet printer (15 inch carriage)	
	<b>2276A</b>	HP DeskJet printer	
	<b>33440A</b>	HP LaserJet Series II printer	
	<b>2603A</b>	HP Full Font Daisywheel impact printer	
	<b>2235A</b>	HP RuggedWriter 480 printer	
	<b>3630A</b> Opt.001	HP PaintJet color graphics printer (RS-232C)	
	<b>3630A</b> Opt.004	HP PaintJet color graphics printer (Centronics)	
	<b>7440A</b> Opt.001	HP ColorPro plotter	
	<b>7475A</b> Opt.001	Graphics plotter	
	<b>7550A</b>	HP High Performance plotter	
	<b>7570A</b>	HP DraftPro plotter	
	<b>7595A</b>	HP DraftMaster I plotter	
	<b>7576A</b>	HP DraftMaster II plotter	
<b>Cables</b>			
	<b>13242P</b>	RS-422 HP 3000 ATP cable	
	<b>13242-60001</b>	RS-232C HP 3000 and U.S. modem cable	
	<b>13242-60002</b>	RS-232C European modem cable	
	<b>13242-60010</b>	RS-232C printer/plotter cable	
	<b>17255D</b>	RS-232C plotter cable	
	<b>17255M</b>	RS-232C plotter cable	
	<b>24542D</b>	Centronics printer cable	
	<b>24542G</b>	RS-232C printer/plotter cable	
	<b>24542H</b>	RS-232C plotter cable	
	<b>24542M</b>	RS-232C HP 3000 and modem cable	
	<b>92218A</b>	RS-232C HP 3000 and U.S. modem cable	
	<b>92218B</b>	RS-232C European modem cable	
	<b>92218D</b>	RS-232C HP 3000 ATP cable	

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\* Orderable July 1988

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