

service handbook chapter

**hp vectra
vl400 dt**

hp business pcs

www.hp.com/go/vectrasupport



i n v e n t

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contents

This chapter provides:

- ☐ Product model numbers
- ☐ Supported Accessories
- ☐ System Board, BIOS, and memory information
- ☐ Part numbers

replacement and exchange parts

The difference between a replacement and an exchange part is that when using an exchange part you should return the replaced part to HP.

Replacement and exchange parts listed in this manual are subject to change. However, updated part numbers are automatically cross-referenced to the old number. This means that you will receive the correct part using the numbers listed in this manual (even if the part's actual number has been updated).

ordering parts

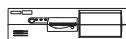
Contact your local HP Customer Care Center or an HP Authorized support provider to get parts. Diagnostic is required in both cases, prior to any shipments. For HP Customer Care Centers

www.hp.com/go/vectrasupport and select **contact hp**

hp vectra vl400 dt pc

models and accessories

product number	hard drive	video controller	std. RAM	multimedia	OS ¹
Vectra VL400 DT PC					
Models with Intel Celeron Processor, 66 MHz System Bus Speed, and 128 KB Level 2 Cache Memory					
HP Vectra VL400 DT PC 566/66 (CPL: 06/2000 ▶)					
D9815A/T	10 GB IDE	Direct AGP integrated in Intel chipset.	64 MB SDRAM	no	W95
HP Vectra VL400 DT PC 600/66 (CPL: xx/2000 ▶)					
P2777T	10 GB IDE	Direct AGP integrated in Intel chipset.	128 MB SDRAM	48 X Max IDE CD-ROM	W95
P3293T			64 MB SDRAM	no	
HP Vectra VL400 DT PC 633/66 (CPL: 06/2000 ▶)					
D9816A/T	10 GB IDE	Direct AGP integrated in Intel chipset.	64 MB SDRAM	no	W95
D9817A/T			128 MB SDRAM		W2000
P3294T			64 MB SDRAM	24 X Max IDE Slim CD-ROM	W98
P3299A/T				48 X Max IDE CD-ROM	
P3386T				no	W95
P3388T					
HP Vectra VL400 DT PC 667/66 (CPL: xx/2000 ▶)					
P3304B	10 GB IDE	Direct AGP integrated in Intel chipset.	64 MB SDRAM	no	W98
P3309T				48 X Max IDE CD-ROM	

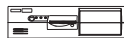


hp vectra vl400 dt pc

product number	hard drive	video controller	std. RAM	multimedia	OS ¹
Vectra VL400 DT PC					
Models with Intel Pentium III Processor, 133 MHz System Bus Speed, and 256 KB Level 2 Cache Memory					
HP Vectra VL400 DT PC 667/133 (CPL: 06/2000 ►)					
D9819A/T	10 GB IDE	Direct AGP integrated in Intel chipset.	64 MB SDRAM	no	W95
P2227A	15 GB IDE			48 X Max IDE CD-ROM	W98
P2258T	10 GB IDE				W95
P2259T			128 MB SDRAM	no	W2000
HP Vectra VL400 DT PC 733/133 (CPL: 06/2000 ►)					
D9822A/T	10 GB IDE	Direct AGP integrated in Intel chipset.	64 MB SDRAM	48 X Max IDE CD-ROM	W95
D9823A/T		Matrox G450 AGP 4x DualHead (16 MB SGRAM fitted, not upgradeable)	128 MB SDRAM		
D9824A/T		Direct AGP integrated in Intel chipset.	64 MB SDRAM		
P1916T					
D2229A					
D2267T					
D2705T					
D2778A	10 GB IDE	128 MB SDRAM	no	W2000	
D2783N/T		64 MB SDRAM	48 X Max IDE CD-ROM	NT 4.0	
D2799A/T				W98 ²	
D3297A/T			24 X Max IDE Slim CD-ROM	W98	



product number	hard drive	video controller	std. RAM	multimedia	OS ¹
HP Vectra VL400 DT PC 800/133 (CPL: 06/2000 ▶)					
D9830A/T	10 GB IDE	Direct AGP integrated in Intel chipset.	64 MB SDRAM	no 48 × Max IDE CD-ROM	W95
D9831A/T			128 MB SDRAM		W2000
D9832A/T		Matrox G450 AGP 4x DualHead (16 MB SGRAM fitted, not upgradeable)			W95
P1917T		Direct AGP integrated in Intel chipset.	64 MB SDRAM		W2000
P1919T		Matrox G450 AGP 4x DualHead (16 MB SGRAM fitted, not upgradeable)	128 MB SDRAM		
D2704A	15 GB IDE	Direct AGP integrated in Intel chipset.	64 MB SDRAM	8 × / 40 × IDE DVD-ROM 48 × Max IDE CD-ROM	W98
P2715T/W	10 GB IDE	Matrox G400 AGP 4x DualHead (16 MB SGRAM fitted, not upgradeable)	128 MB SDRAM		W2000
P2776A/T	30 GB IDE	Direct AGP integrated in Intel chipset.	64 MB SDRAM		W98
P3295A/T	10 GB IDE				
P3311T					
P3351A/T			128 MB SDRAM		no
P3385T	15 GB IDE		64 MB SDRAM	48 × Max IDE CD-ROM no	W95
P3387T		W98			
P3398N		W2000			
P3399A	20 GB IDE				W2000
P3400N	30 GB IDE		128 MB SDRAM	48 × Max IDE CD-ROM	W98



hp vectra vl400 dt pc

product number	hard drive	video controller	std. RAM	multimedia	OS ¹		
HP Vectra VL400 DT PC 866/133 (CPL: 06/2000 ▶)							
P1557A/T	10 GB IDE	Direct AGP integrated in Intel chipset.	64 MB SDRAM	no 48 X Max IDE CD-ROM	W95		
P1558A/T			128 MB SDRAM		W2000		
P1559A/T		Matrox G450 AGP 4x DualHead (16 MB SGRAM fitted, not upgradeable)			W95		
P2262A/T	15 GB IDE	Direct AGP integrated in Intel chipset.	64 MB SDRAM	no	W98		
P3292A/T	10 GB IDE		128 MB SDRAM			48 X Max IDE CD-ROM	
P3296A/T				64 MB SDRAM		no 48 X Max IDE CD-ROM	
P3305B							15 GB IDE
P3306B	10 GB IDE		W2000				
P3314T				128 MB SDRAM		W98	
P3315T					Matrox G450 AGP 4x DualHead (16 MB SGRAM fitted, not upgradeable)		
P3352A/T	Direct AGP integrated in Intel chipset.						
P3353A/T		Matrox G450 AGP 4x DualHead (16 MB SGRAM fitted, not upgradeable)					
P3384A/T			48 X Max IDE CD-ROM				
HP Vectra VL400 DT PC 933/133 (CPL: xx/2000 ▶)							
P3323T	15 GB IDE	Direct AGP integrated in Intel chipset.	64 MB SDRAM	48 X Max IDE CD-ROM	W98		
P3324T		Matrox G400 AGP 4x DualHead (16 MB SGRAM fitted, not upgradeable)	128 MB SDRAM		W2000		



product number	hard drive	video controller	std. RAM	multimedia	OS ¹
Vectra VL400 DT PC					
Models with User Defined Processor, Main Memory, and Hard Disk					
HP Vectra VL400 DT PC ³ (CPL: 06/2000 ▶)					
D9861E	User defined				
P2701E	User defined				

- 3
- Windows 2000 or Windows 95 operating system is preloaded on those models indicated in the table.
Models with Windows 2000 operating system come with a CD-ROM for recovering Windows 2000 or downgrade to Windows NT 4.0 WS.
Models with Windows 95 operating system come with a CD-ROM for recovering Windows 95 or upgrade to Windows 98.
 - ABV/ABT only. No Windows 95 on CD-ROM.
 - Channel Assembly Program (CAP) models: Processor type and speed, hard disk size, memory and operating system is user defined.

note

All models have:

- ☐ Integrated Crystal CS4299 Audio Codec '97 2.1 compatible stereo audio codec.
- ☐ Integrated 3Com 3C905C-TX network controller.
- ☐ Integrated Direct AGP video controller.



hp vectra vl400 dt pc

supported accessories

Memory

64-MB SDRAM, non-ECC PC133 main memory module	P1536A
64-MB SDRAM, non-ECC PC133 main memory module (pack of 20)	P1540A
128-MB SDRAM, non-ECC PC133 main memory module	P1537A
256-MB SDRAM, non-ECC PC133 main memory module	P1538A
512-MB SDRAM, non-ECC PC133 main memory module	P1539A

Video Cards

Matrox G450 DualHead AGP 4X Graphics Card	D7518A
Matrox G400 DualHead AGP 4X Graphics Card	D9521A

Documentation

HP Information CD-ROM	5011-8109
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To order your HP Information CD-ROM from HP's Web:

- 1 Go to www.hp.com/go/vectrasupport, then select **Manuals**
- 2 Select your product, then select **HP Information CD-ROM**

Input Devices

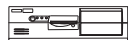
HP Standard Keyboard	C4735A
HP Multimedia Keyboard	C4742A
HP 2-button Mouse	C3751B
HP Scrolling Mouse	C4736A
HP Cordless Scrolling Mouse	C4740A

Monitors

All current HP Monitors (see the *HP Monitors Service Handbook*)

Mass Storage

10-GB 5400 rpm Ultra ATA/66 hard disk drive	D9623A
15-GB 7200 rpm Ultra ATA/66 hard disk drive	D7517A
20-GB 5400 rpm Ultra ATA/66 hard disk drive	P2666A
30-GB 7200 rpm Ultra ATA/66 hard disk drive	D9804A
40-GB 7200 rpm Ultra ATA/66 hard disk drive	P2813A
9.1-GB 7200 rpm Ultra 160 SCSI hard disk drive	D6938C
HP 100 MB Atapi II ZIP drive	D6650C



Multimedia

48X Max IDE CD-ROM drive	D9444A
48X Max IDE CD-ROM drive (pack of 10)	D9445A
8X Video IDE DVD-ROM drive	D7521B
12X Video IDE DVD-ROM drive	P1547A
4X 4X 24X IDE CD-Writer	P1546A
HP Amplified Speakers - by Labtec 10WRMS	D4545A
HP Amplified Speakers - by Labtec 4WRMS	D6861A
HP Amplified External Speaker 9.6WRMS	P1534A
HP Standard Headset	D8387A

Data Communications and LAN Adapter Boards

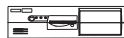
HP 56K V90 USB External Modem	D8384B
HP 56K V90 PCI Internal Modem	D7519A
HP Intel Pro/100+ Management Adapter	D7506A/B
HP Intel Pro/100+ Management Adapter (pack of 10)	D7507A/B

Security

HP Master Pass Key System Kit	D6655C
HP Spare Master Pass Key	D6658B
HP Locks for Master Pass Key System (pack of 50)	D6659A
HP Protect/Tools Smart Card Reader Kit	D8436B
HP Power Protection Device	D7524A

I/O Interfaces

HP Ultra2 SCSI Adapter Card	D9529A
ISA extension card (2 slots)	P1553A



hp vectra v1400 dt pc

system board, BIOS, and memory

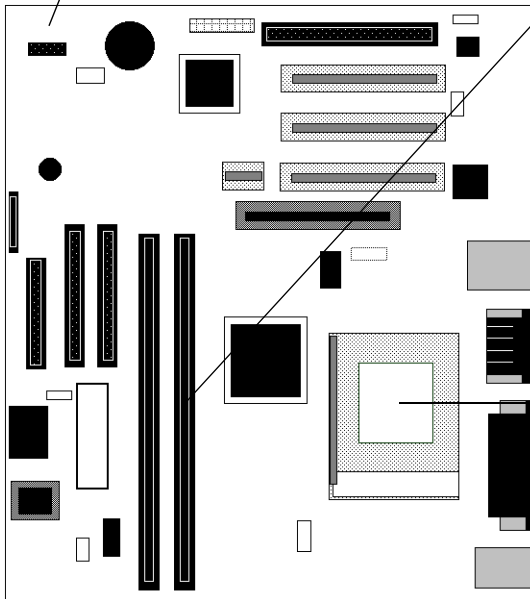
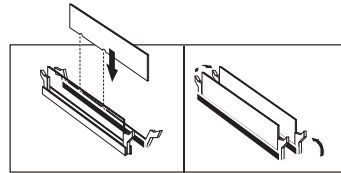
System Board Switches:
See the table on the next page.

Main Memory:

Two DIMM sockets which support up to a maximum of 512 MB.

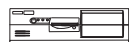
Install 64 MB, 128 MB, 256 MB or 512 MB SDRAM modules.

You can install only one 512 MB module.



Processor:

Intel Pentium III or
Intel Celeron FC-PGA
package with Zero
Insertion Force (ZIF)
socket.



system board switches

Switch		Function	Default
1	On	Clears CMOS and passwords (to reload the <i>Setup</i> program defaults)	Off
	Off	Normal operation	
2	On	Clears User and Administrator passwords	Off
	Off	Normal operation	
3	On	Crash recovery mode: forces booting in the BIOS boot block area	Off
	Off	Normal operation	
4	On	Normal operation (Software boot block protection)	On
	Off	Hardware boot block protection	
5	On	Reserved	Off
	Off	Normal operation	

BIOS history

For the latest BIOS, the flasher utility program, and the BIOS history refer to the HP's Web site.

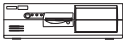
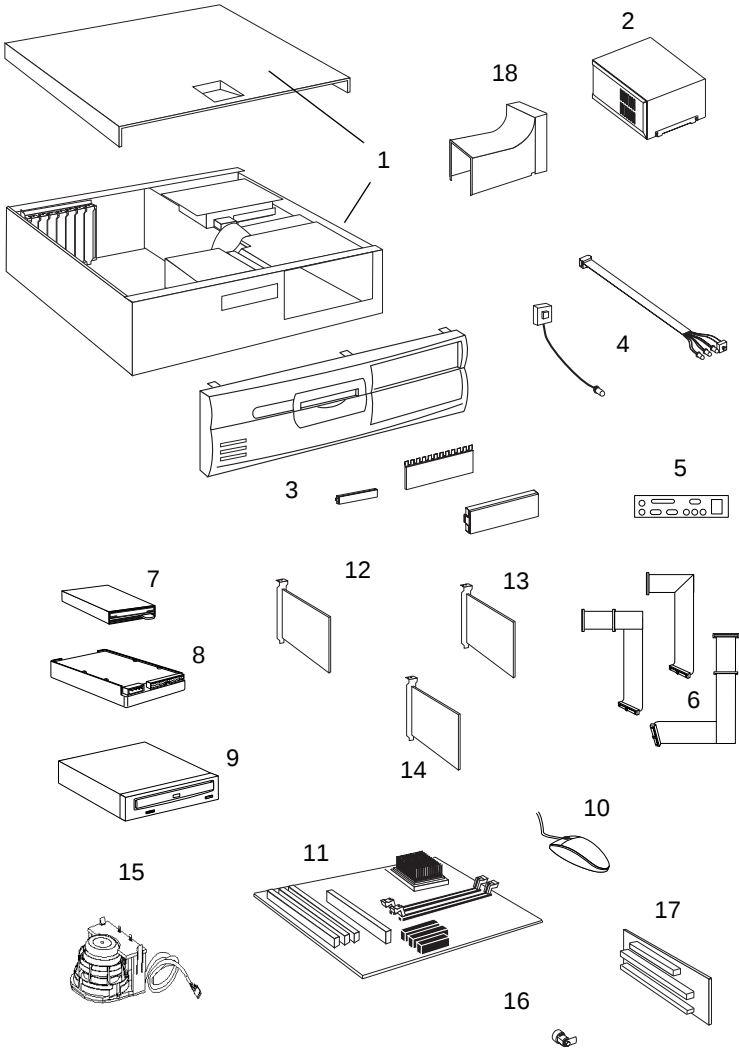
<http://www.hp.com/go/vectrasupport/>



hp vectra vl400 dt pc

part numbers

3



parts list for hp vectra vl400 dt pc

Item	Description	Repl. Part Number	Exchange Part Number
1	Box assembly (chassis assembly, top cover assembly, CD-ROM tray, FDD and HDD tray, HDD RFI kit)	5065-2537	—
2	Power supply	0950-3708	—
	Power supply (PFC ¹)	0950-3983	—
3	Bezels/fillers kit (front bezel assembly, FDD filler kit, CD-ROM RFI plate)	5065-0439	—
4	Power switch kit (LED and switch holder assembly, intrusion switch holder assembly)	5065-0442	—
5	Rear bezel	5002-6272	—
6	HDD, FDD and CD-ROM cable kit	5065-0441	—
7	1.44 Floppy disk drive	D2035-60293	—
8	IDE hard disk drive ²		
	10 GB	—	P1593-69001
	10 GB	—	P2014-69001
	10 GB	—	P2019-69001
	10 GB	—	P2665-69001
	15 GB	—	D6853-69001
	15 GB	—	P1591-69001
	15 GB	—	P2667-69001
	20 GB	—	P2812-69001
	20 GB	—	P2833-69001
	30 GB	—	D6855-69001
	30 GB	—	P1592-69001
	30 GB	—	P2668-69001
	40 GB	—	P2813-69001
	40 GB	—	P3624-69001
	SCSI hard disk drive ²		
	9.1 GB Ultra2 Wide	—	D9475-69001
9	48X Max IDE CD-ROM drive	D4389-63031	—
	8X/40X IDE DVD-ROM drive	—	D4388-69002
	12X/40X IDE DVD-ROM drive	—	D4388-69005
	4X/4X/24X IDE CD-RW drive	—	D4398-69041
	100 MB ATAPI II ZIP drive	D9794-63001	—
10	Standard mouse	C3751-60201	—
	Enhanced mouse with scroll/zoom wheel	C4736-60101	—
	Standard keyboard	C4739-601xx ³	—
	Multimedia keyboard	C4742-60xxx ²	—
11	System board	See PC's system board parts list	

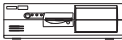


hp vectra vl400 dt pc

parts list for hp vectra vl400 dt pc

Item	Description	Repl. Part Number	Exchange Part Number
12	Matrox Millennium G450 AGP DualHead, 16 MB video card	—	P2062-69501
or	Matrox Millennium G450 PCI DualHead, 16 MB video card	5065-3896	—
or	Matrox Millennium G400 AGP DualHead, 16 MB video card	5064-9194	D8924-69501
13	Symbios® SYM8952U Ultra2 SCSI card	5064-7466	—
14 ⁴	HP 56K V90 PCI Internal Modem - US	D7519-63001	—
or	HP 56K V90 PCI Internal Modem - Europe	5184-3849	—
15	Internal speaker	5184-3847	—
16	Lock assembly	5064-2645	—
17	ISA extension card (2 slots)	5065-4212	—
18	Airflow guide (used with passive heatsink only)	5184-3823	—
not shown	Power cord	8120-xxxx ⁵	—
	External amplified speaker - 110V	P1534-63001	—
	External amplified speaker - 220V	P1534-63002	—

- 1. PFC=Power Factor Correction. PFC power supplies should be used in the EU as of December 1, 2000 in compliance with EU standards.
- 2. For optional disk drive information, see the *Accessory Service Handbook*.
- 3. Where “xx” is the code for your national keyboard (see the *Accessory Service Handbook*).
- 4. Other localizations are available (see the *Accessory Service Handbook*).
- 5. Where “xxxx” is the code for your national power cord.



system board parts list for hp vectra vl400 dt pc

Description	Repl. Part Number	Exchange Part Number
System board: Vectra VL400 system board with audio subsystem	D9820-60009	D9892-69009
Processors (FC-PGA package): Intel Celeron 533A/66 128KB L2 cache Intel Celeron 566/66 128KB L2 cache Intel Celeron 600/66 128KB L2 cache Intel Celeron 633/66 128KB L2 cache Intel Celeron 667/66 128KB L2 cache Intel Pentium III 667B/133 256KB L2 cache Intel Pentium III 733B/133 256KB L2 cache Intel Pentium III 800EB/133 256KB L2 cache Intel Pentium III 866/133 256KB L2 cache Intel Pentium III 933/133 256KB L2 cache Intel Pentium III 1000/133 256KB L2 cache Active heatsink Passive heatsink	D9902-63001 D9903-63001 D9904-63001 P1836-63001 P1837-63001 — — — — — — 5065-1297 5065-1296	— — — — — D9905-69001 D9906-69001 D9872-69001 D9873-69001 D9486-69001 P1579-69001 — —
Main memory modules: 1 × 64-MB non-ECC PC133 SDRAM 1 × 128-MB non-ECC PC133 SDRAM 1 × 256-MB non-ECC PC133 SDRAM 1 × 512-MB non-ECC PC133 SDRAM	P1536-63001 P1537-63001 P1538-63001 P1539-63001	— — — —
Video memory modules: 4-MB AIMM (AGP Inline Memory Module) AIMM retention mechanism	5184-3852 5042-4456	— —

software recovery CD-ROMs

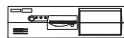
<i>Recovery CD-ROM for Windows NT/2000</i>	5970-0170-xx ¹
<i>Recovery CD-ROM for Windows 9x</i>	5970-0190-xx ¹

1. Where "xx" is the code for your language.

manuals and documentation for hp vectra vl400 dt pc

<i>HP Information CD-ROM</i> ¹	5011-8109
<i>Quick User's Guide</i>	5070-5020-xx
<i>Technical Reference Manual</i>	no number ²

- The *HP Information CD-ROM* contains complete information for the HP Vectra VL400 PC.
To order your HP Information CD-ROM from HP's Web:
1 Go to www.hp.com/go/vectrasupport, then select **Manuals**
2 Select your product, then select **HP Information CD-ROM**
- Electronic file available on HP's Web site.



notes:

[illegible]