

service handbook chapter

**hp vectra
vl400 sff**

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 sff pc

models and accessories

Product Number	Hard Drive	Video Controller	Std. RAM	Multimedia	OS ¹
Vectra VL400 SFF PC					
Models with Intel Celeron Processor, 66 MHz System Bus Speed, and 128 KB Level 2 Cache Memory					
HP Vectra VL400 SFF PC 566/66 (CPL: 06/2000 ▶)					
P1914T	10 GB IDE	Direct AGP integrated in Intel chipset.	64 MB SDRAM	24 × Max IDE Slim CD-ROM	W95
HP Vectra VL400 SFF PC 633/66 (CPL: 06/2000 ▶)					
D9818A/T	10 GB IDE	Direct AGP integrated in Intel chipset.	64 MB SDRAM	24 × Max IDE Slim CD-ROM	W95
P1915T			128 MB SDRAM		W2000
P2266A/T					
HP Vectra VL400 SFF PC 667/66 (CPL: xx/2000 ▶)					
P2784N/T	10 GB IDE	Direct AGP integrated in Intel chipset.	64 MB SDRAM	24 × Max IDE Slim CD-ROM	NT 4.0
P3310T					W98
Vectra VL400 SFF PC					
Models with Intel Pentium III Processor, 133 MHz System Bus Speed, and 256 KB Level 2 Cache Memory					
HP Vectra VL400 SFF PC 667/133 (CPL: xx/2000 ▶)					
P2265A/T	10 GB IDE	Direct AGP integrated in Intel chipset.	64 MB SDRAM	24 × Max IDE Slim CD-ROM	W95
HP Vectra VL400 SFF PC 733/133 (CPL: 06/2000 ▶)					
D9820A/T	10 GB IDE	Direct AGP integrated in Intel chipset.	64 MB SDRAM	24 × Max IDE Slim CD-ROM	W95
D9821A/T			128 MB SDRAM		W2000
P2779A			64 MB SDRAM	no	W95
P2785N/T				24 × Max IDE Slim CD-ROM	NT 4.0

medium-profile
desktop vectras



hp vectra vl400 sff pc 5-1

hp vectra vl400 sff pc

Product Number	Hard Drive	Video Controller	Std. RAM	Multimedia	OS ¹
HP Vectra VL400 SFF PC 800/133 (CPL: 06/2000 ▶)					
D9828A/T	10 GB IDE	Direct AGP integrated in Intel chipset.	64 MB SDRAM	24 × Max IDE Slim CD-ROM	W95
D9829A/T			128 MB SDRAM		W2000
P3298A/T			64 MB SDRAM		W98
P3401A	20 GB IDE		128 MB SDRAM	no	W95
P3402N	15 GB IDE			24 × Max IDE Slim CD-ROM	W2000
HP Vectra VL400 SFF PC 866/133 (CPL: 06/2000 ▶)					
P1555A/T	10 GB IDE	Direct AGP integrated in Intel chipset.	64 MB SDRAM	24 × Max IDE Slim CD-ROM	W95
P1556A/T			128 MB SDRAM		W2000
P3320T			64 MB SDRAM		W98
P3321T			128 MB SDRAM		W2000
P3394A/T			64 MB SDRAM		W98
HP Vectra VL400 SFF PC 933/133 (CPL: xx/2000 ▶)					
P3327T	15 GB IDE	Direct AGP integrated in Intel chipset.	128 MB SDRAM	24 × Max IDE Slim CD-ROM	W2000

5

Product Number	Hard Drive	Video Controller	Std. RAM	Multimedia	OS ¹
Vectra VL400 SFF PC					
Models with User Defined Processor, Main Memory, and Hard Disk					
HP Vectra VL400 SFF PC ² (CPL: 06/2000 ▶)					
D9860E	User defined				
D2252E	User defined				
D2700E	User defined				

1. 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.
2. 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.

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

Documentation

- HP Information CD-ROM5011-8109
- 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**

Monitors

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



5

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Input Devices

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

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

24X Max IDE CD-ROM drive	P1549A
8X Video IDE DVD-ROM drive	P1545A
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)	P1550A
HP ProtectTools Smart Card Reader Kit	D8436B
HP Power Protection Device	D7524A

I/O Interfaces

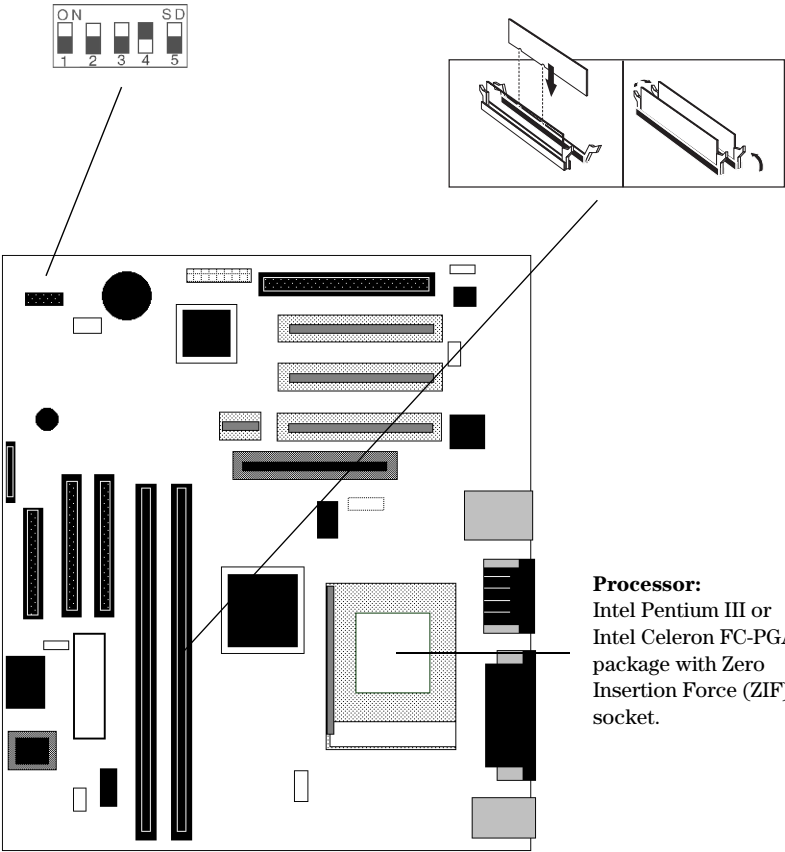
HP Ultra2 SCSI Adapter Card	D9529A
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system board, BIOS, and memory

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.



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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	

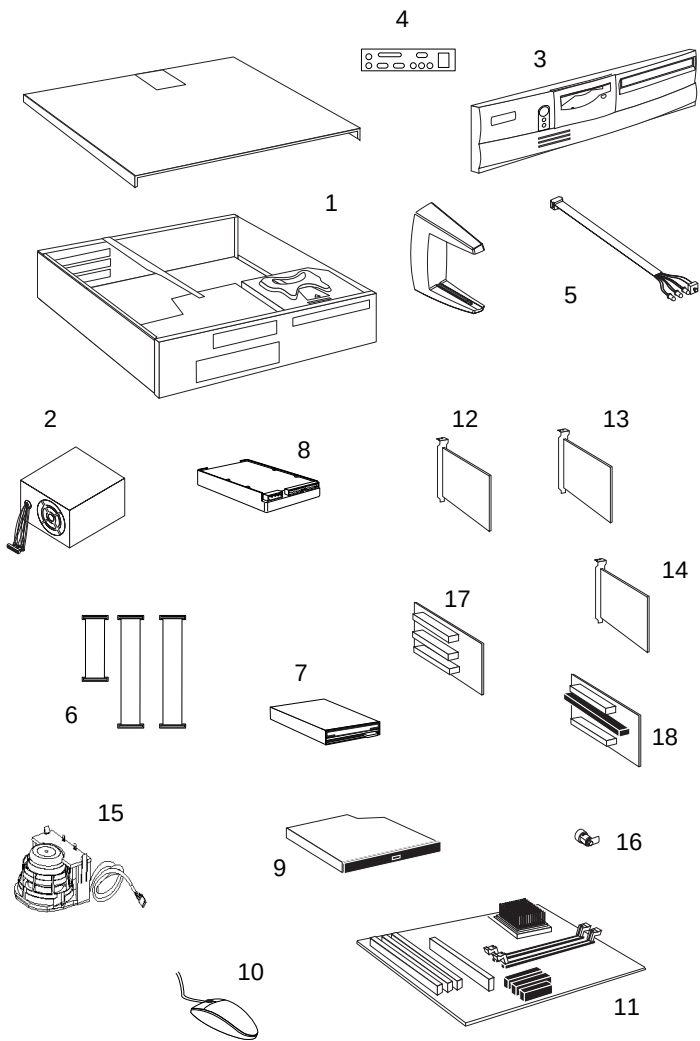
BIOS history

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/>



part numbers



hp vectra vl400 sff pc

parts list for hp vectra vl400 sff pc

Item	Description	Repl. Part Number	Exchange Part Number
1	Box assembly (chassis assembly, FDD filler kit, stand foot)	5065-2501	—
2	Power supply (PFC ¹)	0950-3797	—
3	Front bezel assembly	5065-2509	—
4	Rear bezel	5002-6272	—
5	Power switch kit	5065-2502	—
6	HDD, FDD and CD-ROM cable kit	5065-2508	—
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	24X Max IDE Slim CD-ROM drive	D4383-60101	—
	8X/24X IDE Slim DVD-ROM drive	D4388-60101	—
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	
12	Matrox Millennium G450 PCI DualHead, 16 MB video card	5065-3896	—
13	Symbios® SYM8952U Ultra2 SCSI card	5064-7466	—
14 ⁴ or	HP 56K V90 PCI Internal Modem - US	D7519-63001	—
	HP 56K V90 PCI Internal Modem - Europe	5184-3849	—
15	Internal speaker	5184-3847	—
16	Lock assembly	5064-9111	—



parts list for hp vectra vl400 sff pc

Item	Description	Repl. Part Number	Exchange Part Number
17	ATX Standard riser card (3 PCI slots)	5065-2555	—
18	ATX Optional riser card (one ISA/PCI slot and one PCI)	5065-2598	—
not shown	Power cord	8120-xxxx ⁵	—
	Airflow guide and fan kit	5065-2503	—
	External amplified speaker - 110V	P1534-63001	—
	External amplified speaker - 220V	P1534-63002	—

- 1. PFC=Power Factor Correction.
- 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 sff 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	D9902-63001	—
Intel Celeron 566/66 128KB L2 cache	D9903-63001	—
Intel Celeron 600/66 128KB L2 cache	D9904-63001	—
Intel Celeron 633/66 128KB L2 cache	P1836-63001	—
Intel Celeron 667/66 128KB L2 cache	P1837-63001	—
Intel Pentium III 667B/133 256KB L2 cache	—	D9905-69001
Intel Pentium III 733B/133 256KB L2 cache	—	D9906-69001
Intel Pentium III 800EB/133 256KB L2 cache	—	D9872-69001
Intel Pentium III 866/133 256KB L2 cache	—	D9873-69001
Intel Pentium III 933/133 256KB L2 cache	—	D9486-69001
Intel Pentium III 1000/133 256KB L2 cache	—	P1579-69001
Active heatsink	5065-1297	—
Passive heatsink	5065-1296	—
Main memory modules:		
1 × 64-MB non-ECC PC133 SDRAM	P1536-63001	—
1 × 128-MB non-ECC PC133 SDRAM	P1537-63001	—
1 × 256-MB non-ECC PC133 SDRAM	P1538-63001	—
1 × 512-MB non-ECC PC133 SDRAM	P1539-63001	—
Video memory modules:		
4-MB AIMM (AGP Inline Memory Module)	5184-3852	—
AIMM retention mechanism	5042-4456	—



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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.

manuale e documentazione per hp vectra vl400 sff pc

<i>HP Information CD-ROM¹</i>	5011-8109
<i>Quick User's Guide</i>	5070-5020-xx
<i>Technical Reference Manual</i>	no number ²

1. 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**
2. Electronic file available on HP's Web site.

notes:

[illegible]