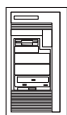


HP Kayak XU PC Workstation (up to 333 MHz)

Models and Accessories

Product Number	Processors	Hard Drive	Video Controller	Std. RAM	Multi-media	LAN	OS					
<div>Kayak XU PC Workstation</div> HP Kayak XU 6/266 MHz (CPL: 9/97▶)												
D4691N	Single Pentium II with 512 KB of L2 cache memory	2.1 GB, 7.2k rpm, SCSI	Matrox Millenium II AGP, 4 MB	32 MB SDRAM ECC	24× IDE CD-ROM. Audio chip (AD1816) is integrated on the system board.	10BT/100TX	NT 4.0 WS					
D4692N		4.5 GB, 7.2k rpm, SCSI	on board, upgradeable to 16 MB	64 MB SDRAM ECC								
HP Kayak XU 6/300 MHz (CPL: 9/97▶)												
D4693N	Single Pentium II with 512 KB of L2 cache memory	2 x 4.5 GB, 10k rpm, SCSI with HP FastRAID	Matrox Millenium II AGP, 4 MB on board, upgradeable to 16 MB	64 MB SDRAM ECC	24× IDE CD-ROM. Audio chip (AD1816) is integrated on the system board.	10BT/100TX	NT 4.0 WS					
D4694N	Dual Pentium II with 512 KB of L2 cache memory	4.5 GB 10k rpm, SCSI										
D4695N	Single Pentium II with 512 KB of L2 cache memory	4.5 GB, 10k rpm, SCSI with HP FastRAID										
D4701N												
D4702N		9.1 GB, 10k rpm, SCSI						128 MB SDRAM ECC				

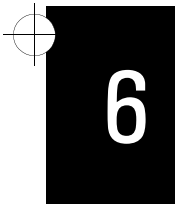


HP Kayak XU PC Workstation (up to 333 MHz)

Product Number	Processors	Hard Drive	Video Controller	Std. RAM	Multi-media	LAN	OS
HP Kayak XU 6/333 MHz (CPL: 3/98▶)							
D4705N	Single Pentium II with 512 KB of L2 cache memory	4.5 GB, 10k rpm, SCSI with HP FastRAID	Matrox Millenium II AGP, 4 MB on board, upgradeable to 16 MB	64 MB SDRAM ECC	24X IDE CD-ROM. Audio chip (AD1816) is integrated on the system board.	10BT/100TX	NT 4.0 WS

Note

All models are supplied with a 1.44 MB (D2035B) Flexible Disk Drive, two integrated SCSI controllers (one Ultra Wide 16-bit SCSI and one Ultra Narrow 8-bit SCSI), and an integrated IDE controller.



HP Kayak XU PC Workstation (up to 333 MHz)

Supported Accessories

32 MB ECC SDRAM upgrade kit	D5365A
64 MB ECC SDRAM upgrade kit	D5366A
128 MB ECC SDRAM upgrade kit	D5367A
4 MB memory upgrade for Matrox Millenium II AGP video controller	D5487A
HP FastRAID Accessory Kit	D5480A
<i>User's Guide</i> Manual Kit	D4700A

Dual Processor Kits¹

Pentium II 266 MHz containing 512 KB internal L2 cache	D5483A
Pentium II 300 MHz containing 512 KB internal L2 cache	D5484A
Pentium II 333 MHz containing 512 KB internal L2 cache	D6526A

Input Devices

HP mouse	C3751B
HP scrolling mouse	C4736A

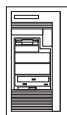
Video Displays

All current HP Displays (see the *HP Kayak Accessory Service Handbook*)

Mass Storage

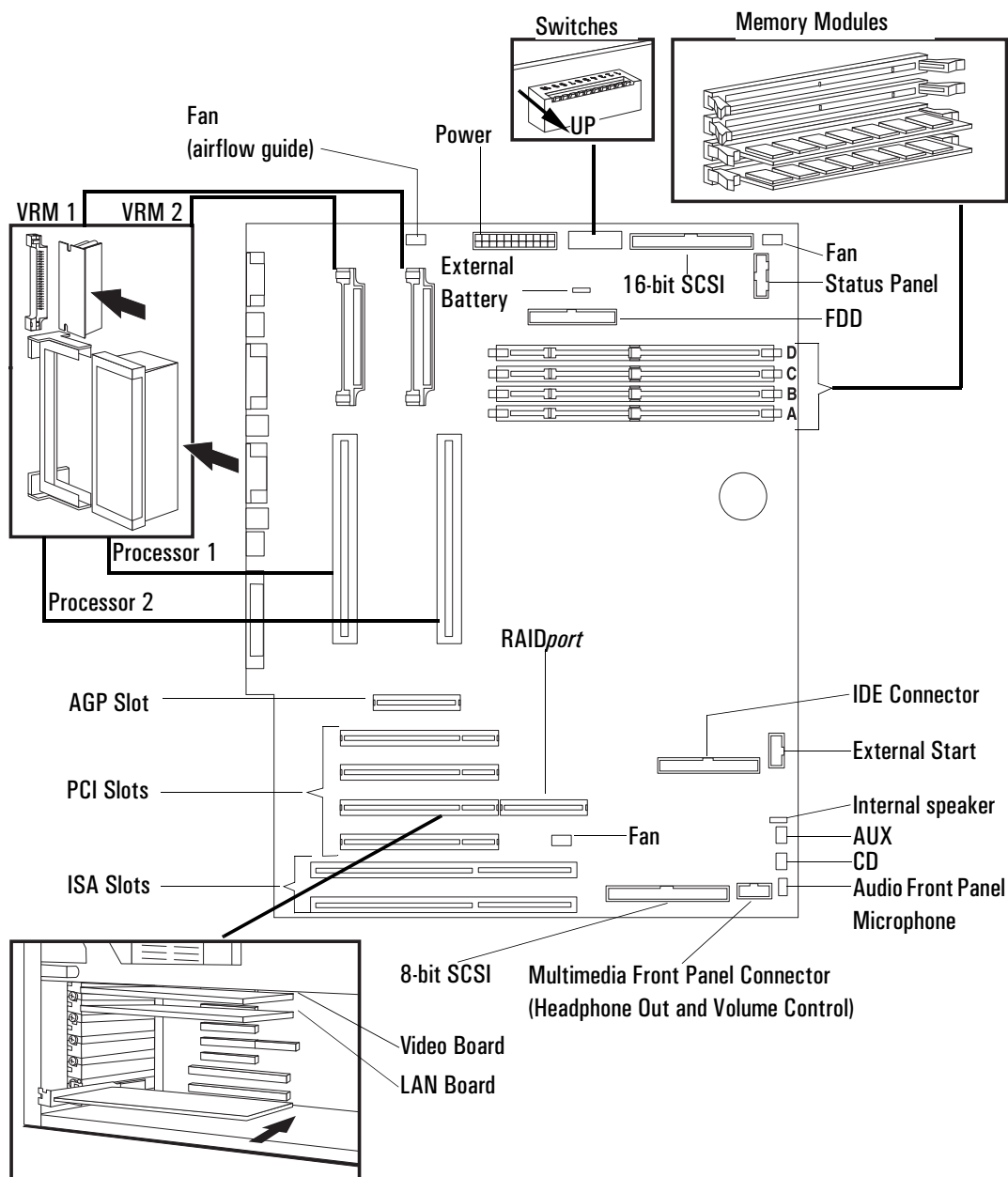
4.5 GB UW-SCSI hard disk 7.2k rpm	D5368A
4.5 GB UW-SCSI hard disk 10k rpm	D5481A
9.1 GB UW-SCSI hard disk 7.2k rpm (1.6-inch high) ²	D5369A
9.1 GB UW-SCSI hard disk 10k rpm (1-inch high)	D6520A
Flexible disk 3.5-inch 1.44 MB (1-inch high)	D2035B
IDE 24X CD-ROM drive	D4383A
Rail kit (3.5-inch)	D3566A
Rail kit (5.25-inch)	5063-7961

1. Dual Processor Kits include: processor, voltage regulator module and heatsink.
2. Only one 1.6-inch hard disk drive is supported in the *Kayak XU PC Workstation* (on the lower internal shelf).



HP Kayak XU PC Workstation (up to 333 MHz)

System Board, BIOS and Memory



HP Kayak XU PC Workstation (up to 333 MHz)

System Board Switches

Switch		Function	Default
1-5	—	Processor frequency, see following table	—
6	UP ¹	Retain configuration in EEPROM, normal position	UP
	DOWN	Clears EEPROM	
7	UP	Enables User and Administrator passwords	UP
	DOWN	Clears User and Administrator passwords	
8	UP	Disables power on using keyboard	DOWN
	DOWN	Enables keyboard power on	
9	UP	Fan speed controlled by internal temperature sensors.	UP
	DOWN	Fan speed set at maximum.	
10	UP	Normal operation	UP
	DOWN	Recovery boot active (force BIOS flashing) ²	

1. UP=OFF, DOWN=ON (refer to the diagram on page 4 of this chapter for switch positioning).
2. Refer to "Recovery Boot Active Procedure" in Appendix B for the detailed recovery procedure.

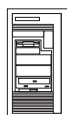
Switch					Processor Frequency ¹
1	2	3	4	5	
UP ²	UP	DOWN	DOWN	DOWN	233 MHz
UP	UP	DOWN	UP	UP	266 MHz
UP	DOWN	UP	DOWN	UP	300 MHz
UP	DOWN	UP	UP	DOWN	333 MHz

1. PL Bus Frequency is 66 MHz
PCI Bus Frequency is 33 MHz
ISA Bus Frequency is 8.25 MHz
2. UP=OFF, DOWN=ON (refer to the diagram on page 4 of this chapter for switch positioning).

Setup and BIOS History

For the latest BIOS, the flasher utility program, and the BIOS history refer to the HP World Wide Web site. The BIOS is in the form HB1xxxxy.FUL, where xxx is the version number and yy is the language number.

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



HP Kayak XU PC Workstation (up to 333 MHz)

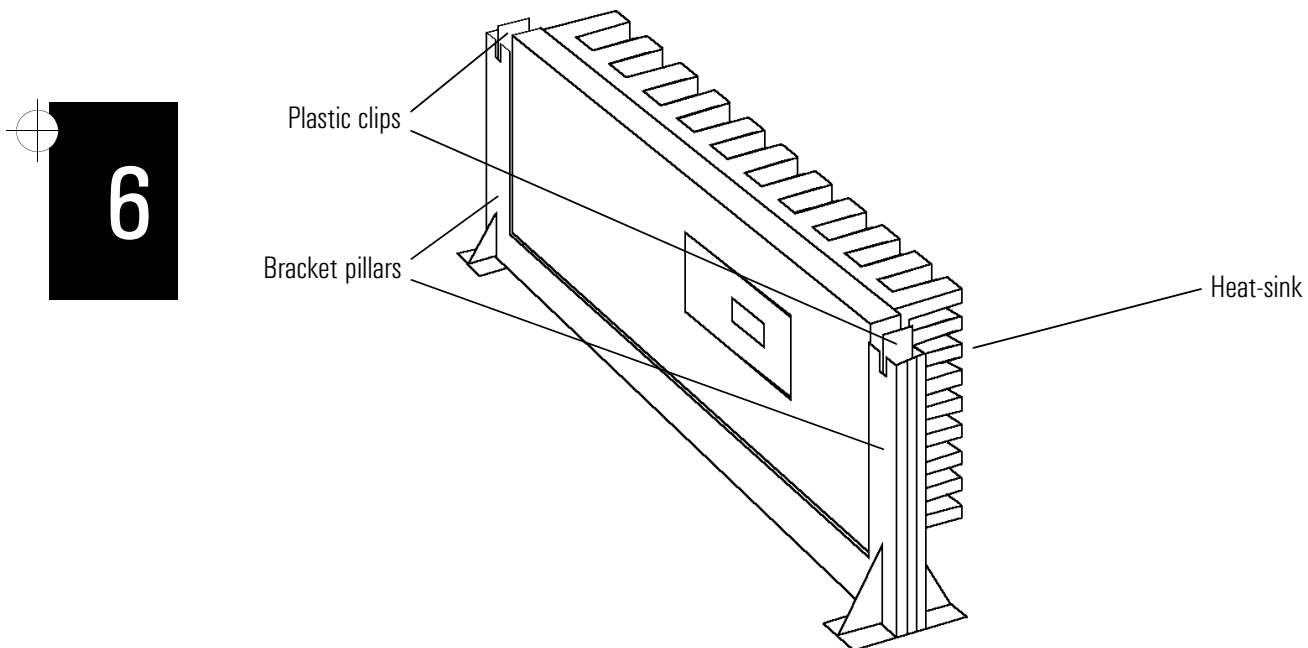
Installing a Dual Processor / Replacing a processor

HP Kayak XU 6/xxx PC Workstations are supplied with dual processor slots and either one or two processors installed. Single processor models can be upgraded to dual processor systems by installing the second processor accessory in the vacant slot.

The second processor must be a Pentium II processor of the same speed and level-2 cache memory capacity as the first. It is installed by gently sliding the processor into the vacant processor connector slot until the two plastic clips at the sides engage to lock the processor into place.

Every processor that is installed, or replaced, must be accompanied by the voltage regulator module (VRM) that was supplied with it. Each VRM is specific to the processor with which it was supplied, and should only be used with that processor.

After installation of a second processor, the operating system must be reinstalled.



Cache Memory

512 KB of level-two cache memory is integrated in the Pentium II processor package.



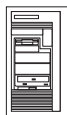
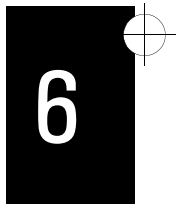
HP Kayak XU PC Workstation (up to 333 MHz)

Main Memory

The PC Workstation has four DIMM slots on the system board for installing main memory; slots A, B, C and D. Models are supplied with 32, 64 or 128 MB of main memory. If additional memory is required, up to 512 MB may be installed. Memory upgrades are available in single 32 MB, 64 MB or 128 MB ECC SDRAM modules. A serial EEPROM on the DIMM contains data on the memory speed. This information is read at each power on, and access time settings are set accordingly.

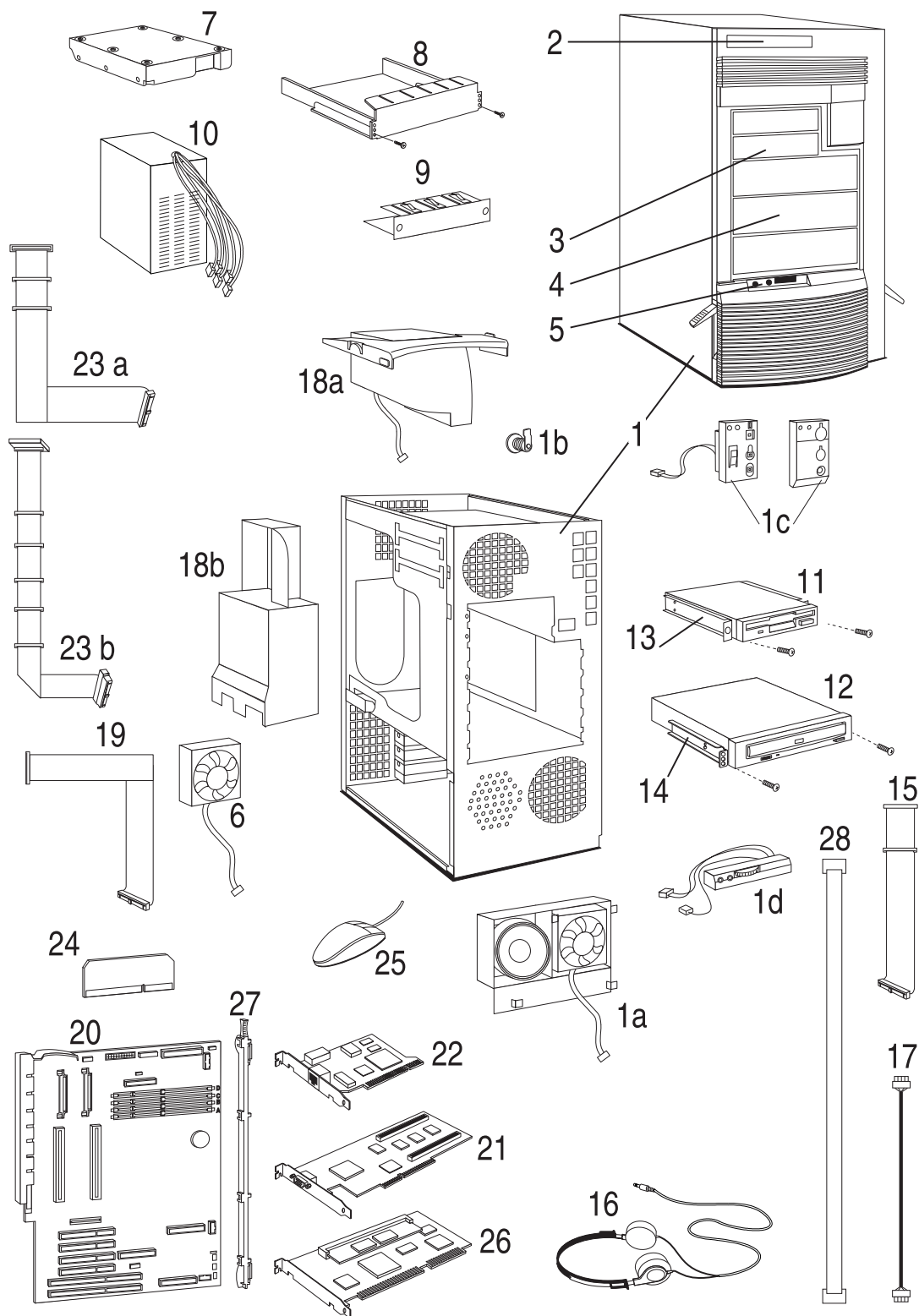
Video Memory

There is 4 MB of video memory already supplied on the graphics controller board. Memory may be upgraded to a maximum of 16 MB by installing a memory module of 4 MB, 8 MB or 12 MB onto the board. No switch or jumper settings need to be changed (all jumpers should be left in the positions in which they were set by the manufacturer).



HP Kayak XU PC Workstation (up to 333 MHz)

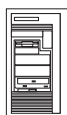
Part Numbers



HP Kayak XU PC Workstation (up to 333 MHz)

Parts List for HP Kayak XU 6/xxx PC Workstation (up to 333 MHz)

Item	Description	Repl. Part Number	Exchange Part Number
1	Box assembly: a I/O Guide + Fan + Speaker assembly b Cover lock assembly c Status panel kit d Multimedia control panel e Bumper foot	5064-1860 5063-3351 5062-5590 5064-3353 5064-1832 5042-2479	— — — — — —
2	Logo HP Kayak XU PC Workstation	5042-2428	—
3	Filler panel 3.5-inch	5042-1405	—
4	Filler panel 5.25-inch	5042-1178	—
5	Multimedia bezel	5042-2452	—
6	Upper Front Fan	5064-3352	—
7	UW-SCSI Hard disk drive (standard) ¹ : 2.1 GB, 7.2k rpm 4.5 GB, 7.2k rpm 4.5 GB, 10k rpm 9.1 GB, 7.2k rpm 9.1 GB, 10k rpm	D5140-63001 D5141-63001 D4625-63001 D4629-63001 D4627-63001	D5140-69001 D5141-69001 D4625-69001 D4629-69001 D4627-69001
8	5.25-inch tray	5002-1946	—
9	3.5-inch tray	Part of Box Assembly	
10	Power supply unit	0950-3212	—
11	Flexible disk drive	D2035-60152	—
12	CD-ROM drive (standard): 24X IDE	D4383-63001	D4383-69001
13	Rail kit (3.5-inch)	D3566A	—
14	Rail kit (5.25-inch)	5063-7961	—
15	Internal ATA33 IDE cable ² (for CD-ROM)	5183-2708	—
16	Headset	5064-2673	—
17	CD-ROM to audio cable	5182-1857	—
18	Airflow guides: a) Rear fan + Airflow guide assembly b) Processor Retainer Airflow guide	5064-3316 5042-2427	— —
19	Flexible disk cable	5183-0746	—
20	System board	See system board parts list	
21	Graphics board Millennium II AGP (4 MB) 4 MB Memory upgrade kit	5064-1873 D5487-63001	D4690-69501 —
22	HP 10/100 BT PCI -LAN board	5064-1897	D3999-69001



HP Kayak XU PC Workstation (up to 333 MHz)

Parts List for HP Kayak XU 6/xxx PC Workstation (up to 333 MHz)

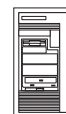
Item	Description	Repl. Part Number	Exchange Part Number
23	SCSI cables (including SCSI terminator) a) 8-bit SCSI b) 16-bit SCSI	5183-0747 5183-2765	— —
24	Processor terminator	5064-2680	—
25	3-button mouse	C4728-60101	—
26	FastRAID (Adaptec ARO) card with SIMM 16 MB memory	5064-1874	D4580-69001
27	CPU guide	5042-0569	—
28	Internal LAN cable	5183-0758	—
Not Shown	Keyboards		
	Enhanced keyboard	C4734-601xx ³	—
	Windows 95 keyboard - Japan	C4729-60224	—
	Windows 95 keyboard - Korea	C4730-60121	—
	I/O blank panel	45935-00004	—
	External battery	tbd	

- For optional disk drive information, refer to the Accessories section of this *Service Handbook*.
- This is a specific IDE cable with the master connector on one end and the slave connector in the middle of the IDE cable.
- Where "xx" is the code for your national keyboard (refer to the Accessories section of this *Service Handbook*).

System Board Parts List for HP Kayak XU 6/xxx PC Workstation (up to 333 MHz)

Description	Repl. Part Number	Exchange Part Number
System board:	D4690-63001	D4690-69001
Processors¹:		
Intel Pentium II 266 MHz, 512 KB cache	5064-2652	—
Intel Pentium II 300 MHz, 512 KB cache	5064-3330	—
Intel Pentium II 333 MHz, 512 KB cache	5064-3697	—
Voltage regulator module (VRM)	0950-3310	—
Main memory modules:		
1 × 32 MB main memory ECC SDRAM	D5365-63001	D5365-69001
1 × 64 MB main memory ECC SDRAM	D5366-63001	D5366-69001
1 × 128 MB main memory ECC SDRAM	D5367-63001	D5367-69001

- Heat-sink is integrated in the Pentium II processor package.



HP Kayak XU PC Workstation (up to 333 MHz)

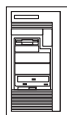
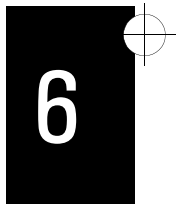
Manuals and Documentation for HP Kayak XU 6/xxx PC Workstation (up to 333 MHz)

<i>User's Guide</i>	D4700-90001 and electronic file
<i>Familiarization Guide</i>	electronic file - D4700-90901
<i>Technical Reference Manual</i>	electronic file only

Software for HP Kayak XU 6/xxx PC Workstation

<i>Kayak XU Drivers and documentation</i> CD-ROM	5011-3869
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Notes: _____



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