

IBM ValuePoint Reference (P60/D models)

IBM® ValuePoint™:	P60 / D													
Type	6384													
Models	189 = diskette, 424 MB, 13 ms 1A3 = diskette, 527 MB, 12 ms (193 = diskette, 527 MB, 9 ms - withdrawn July 1994) 1A9 = diskette, 527 MB, 12 ms (199 = diskette, 527 MB, 9 ms - withdrawn July 1994)													
Processor / MHz	Pentium 60 MHz													
Processor upgrade(s)	① Future Intel® Pentium™ OverDrive™ processors													
Upgrade method	Remove CPU from 273 pin ZIF (Zero Insertion Force) socket													
L2 cache - std / max	256 KB / 256 KB													
L2 cache - write policy	Write-through													
L2 cache - organization	Direct mapped / SRAM / 15 ns													
L2 cache - method	Soldered on planar													
Memory - std / max	8 MB (193, 1A3) or 16 MB (189, 199, 1A9) / 128 MB													
Memory - speed / pins	70 ns / 72 pin		Memory must be installed in matched pairs because of the 64 bit transfer from Pentium to memory.											
Memory - supported SIMMs	70 ns only (4, 8, 16, 32 MB SIMMs)													
Mem - total sockets / avail	4 sockets / 2 available													
Memory - type	Parity (industry standard only) ¹													
Memory controller RAS	Dual RAS / 64 bit transfers to L2 cache and memory (not IBM-type parity). <i>Note 1: Only uses SIMMs that use industry standard-type parity</i>													
Graphics - controller	68800AX (on planar) System rated at 41 Graphics WinMarks													
Graphics - vendor	ATI™													
Graphics - type	SVGA - accelerator													
Graphics - memory std / max	1 / 2 MB (VRAM) 60 ns													
Graphics - arch / data path	PCI local bus / 32 bit													
ISA 16 bit slots / avail	3 slots / 3 available	Slot 1: half size, 16 bit ISA	The Peripheral Component Interconnect (PCI) bus is a 32 bit data and address I/O bus operating at up to 30 MHz on the P60/D. It is processor independent and supports both intrgated devices such as the SVGA video on the P60/D planar and I/O slots for PCI adapters. Devices and adapters attached through the PCI bus may operate at speeds up to 120 MB per second.											
PCI 32 bit slots / avail	2 slots / 2 available	Slot 2: full size, 16 bit ISA												
		Slot 3: full size, 32 bit PCI												
	(4 total slots)	Slot 4: half size, 32 bit PCI or 16 bit ISA												
Serial - ports	Two 9 pin													
Serial - controller / DMA	16550A / non-DMA													
Serial - max speed	56 Kbps													
Parallel port	One DMA bidirectional / Enhanced Capabilities Port (ECP) / 2-5 MB/sec max supported speed													
Disk controller	IDE (16 bit)													
Diskette drive	3.5" 1.44 MB													
BIOS	128 KB Flash memory (AMI™)													
Security	① Cover key lock ② U-Bolt support ③ Diskette write inhibit ④ Serial/parallel port inhibit ⑤ Power-on password ⑥ Administrator password ⑦ Boot sequence control ⑧ Boot without keyboard/mouse ⑨ Hard disk disable													
	The P60/D supports a new DMA mode called Type F which provides high performance DMA transfer capability. It may be used for fast I/O devices such as IDE devices. The 424 MB disk in the model 189 supports this.													
	ID: Five bays: <table border="1" style="display: inline-table; vertical-align: middle;"> <tr> <td>diskette</td> <td>③</td> </tr> <tr> <td>disk</td> <td>④</td> </tr> <tr> <td></td> <td>⑤</td> </tr> </table> <table style="display: inline-table; vertical-align: middle; margin-left: 20px;"> <tr> <td>① 3.5", SL 1", access, std diskette</td> </tr> <tr> <td>② 3.5", HH 1.6", no access, std disk</td> </tr> <tr> <td>③ 5.25", HH 1.6", access, open</td> </tr> <tr> <td>④ 5.25", HH 1.6", access, open</td> </tr> <tr> <td>⑤ 3.5", SL 1", no access, open</td> </tr> </table>			diskette	③	disk	④		⑤	① 3.5", SL 1", access, std diskette	② 3.5", HH 1.6", no access, std disk	③ 5.25", HH 1.6", access, open	④ 5.25", HH 1.6", access, open	⑤ 3.5", SL 1", no access, open
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⑤ 3.5", SL 1", no access, open														
Preloaded software	None; no operating system standard													
Keyboard / mouse	Enhanced 101 keyboard / IBM enhanced mouse (400 dpi)													
Sound	Speaker													
Power supply	200 watt / universal / manual switch													
Available date	October 1993 (189, 193, 199) and July 1994 (1A3, 1A9)													

ATI 68800AX VIDEO MODES				OTHER STANDARD FEATURES	VALUEPOINT WARRANTY SERVICE SUPPORT
Resolution	Frame Rate Hz (non-interlaced)	Memory required	Maximum colors/ gray shades	Dual orientation support Unattended start mode Ability to disable L1 or L2 cache for current boot	<ul style="list-style-type: none"> ⇒ 1 year warranty ⇒ On site warranty all year ⇒ All cities in all states ⇒ 8 am - 5 pm Mon - Fri coverage ⇒ Next day response time ⇒ Optional warranty: 4 hour response, 24 hr / 7 day coverage ⇒ Post warranty: 2 options above ⇒ 24 hour / 7 day telephone support ⇒ 24 hour / 7 day bulletin board ⇒ 24 hour / 7 day fax support ⇒ IBM or dealer warranty/service ⇒ 30 day money back guarantee
640 x 480	60, 72	1 MB	65,536 / 256		
640 x 480	60	1 MB	16.7 mil / 256	The Configuration Utility resides in Flash memory which can be invoked by pressing the F1 key during memory POST.	
800 x 600	50, 60, 70, 72, 76	1 MB	256 / 256		
800 x 600	44.5 (I), 47.5 (I)	1 MB	65,536 / 256		
800 x 600	56, 60	2 MB	65,536 / 256		
1024 x 768	43.5 (I)	1 MB	256 / 256		
1024 x 768	60, 66, 70, 72, 76	1 MB	256 / 256		
1280 x 1024	43.5 (I), 47.5 (I)	1 MB	16 / 16		
1280 x 1024	43.5 (I), 47.5 (I)	2 MB	256 / 16		
I = Interlaced					

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No warranties are expressed or implied in this summary (5VP) Compiled by Roger Dodson, IBM. July 1994