



## **AlphaStation 500/266 and 500/333 V2.2**

Digital Systems and Options Catalog

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## AlphaStation 500/266 and 500/333

### Product Description

The AlphaStation 500/266 and 500/333 high performance desktop Workstations are new members of the AlphaStation family. Systems deliver premium performance and provide access to thousands of applications running on Digital UNIX, OpenVMS and Windows NT Workstation systems.

**The AlphaStation 500/266** uses the DECchip 21164 processor running at 266 MHz. The CPU performance measures 329 SPECint92 and 405 SPECfp92 with 2-Mbytes third level cache.

**The AlphaStation 500/333** uses the DECchip 21164 processor running at 333 MHz. The CPU performance measures 389 SPECint92 and 480 SPECfp92 with 2-Mbytes third level cache.

The system is housed in a new base colored desktop enclosure—Top Gun Blue, with capacity for up to 512 Mbyte of ECC memory, 256-bit wide memory bus, five storage slots, and four PCI expansion slots. Three of the PCI expansion slots are 32-bit, while the fourth is a 64-bit slot. The high performance 64-bit PCI I/O bus, running at 264-Mbytes/second peak, provides expansion for options such as high performance graphics, networking, and SCSI adapters. The system supports a wide variety of industry-standard peripherals and PC options. Other standard features include Twisted Pair and ThinWire Ethernet, stereo-quality audio, an array of external ports for serial/parallel communications, and external SCSI connectors. This combination of standard features allows multiple in-box configurations without the need for additional tabletop options or expansion boxes.

Digital's Trade-In 1996 program offers a cost-effective upgrade path for users of older workstations to the AlphaStation 500 workstation.

All AlphaStation 500 systems come with the best hardware warranty in the industry—a three-year warranty.

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## Systems

- Digital UNIX and OpenVMS systems include factory-installed software (FIS).
  - Options ordered will be factory installed unless specified as **spares**.
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### AlphaStation 500 systems include

- Alpha microprocessor 21164 266-MHz CPU with 2 MB of third level cache, **or**
- Alpha microprocessor 21164 333-MHz CPU with 2 MB of third level cache
- Desktop enclosure which includes:
  - Four expansion slots
    - One 64-bit PCI \*
    - Three 32-bit PCI
  - Two memory banks for maximum of 512 MB.
  - Five storage slots
    - One dedicated diskette drive slot
    - One dedicated CD ROM drive slot
    - Three hard disk drives slots support
      - Three 1" drives or
      - One 1" drive and one 1.6" drive
  - Integral Fast Wide single ended SCSI-2 controller with one external SCSI-2 connector, and high performance 10 MB/second Twisted Pair and ThinWire Ethernet
  - 320-Watt power supply
  - Two serial ports, support full modem control
  - One parallel port
- Keyboard port and mouse port
- Memory (Advantage systems only)
- Hard Disk (Advantage systems only)
- Graphics (Advantage systems only)
- Audio, headset, and microphone
- 3-button mouse
- Hardware documentation
- Hardware Warranty: Industry leading three-year on-site
- Software Warranty: 90-day SPD conformance with advisory telephone support
- Digital UNIX V 3.2D 2-user base license  
Digital Open3D license  
Multimedia Services license  
Digital NAS Client 150 license  
Communiq! starter license, **or**
- OpenVMS V6.2-1H1 base license plus 1-user license  
Digital Open3D license  
Multimedia Services license  
Digital NAS Client 150 license, **or**
- Windows NT Workstation V3.51 media kit, Communiq! starter license and CD-ROM, Digital Light & Sound license and CD-ROM

\* 32-bit PCI option can be installed in 64-bit PCI slot. Option will run at 32-bit speed of 132 Mbyte/seconds instead of 64-bit speed of 264 Mbytes/seconds.

### Ordering menu that follows includes

- AlphaStation 500/266 and 5/233 Advantage Configurations and Base Configurations

Menus are streamlined for ease of ordering. Select Advantage Configurations to meet application and performance needs in the following areas:

- 2D CAD
- 3D Solids CAD

To configure a customized system, use Base Configuration menus. Additional system options are in the AlphaStation Options section.

### Warranty Statement

AlphaStations are sold with specific warranty response times, hours of coverage, warranty duration, and a specific manner by which the warranty service will be delivered. Digital also makes available extended coverage offerings to uplift or extend the service coverage and/or response time: See Supplemental Services in AlphaStation Options section.

## AlphaStation 500/266 ADVANTAGE CONFIGURATIONS

Y=in base configuration; M=mandatory option; O=option

AlphaStation 500/266	Resources Used		Digital UNIX / OpenVMS		Digital UNIX / Windows NT
Application Profile			<b>2D CAD</b>		<b>3D CAD</b>
Includes: (AA = 120V, AB = 240V)			<b>PB541-AA / PB541-BA</b>		<b>PB541-AB / PB541-CA</b>
CPU Alpha microprocessor	21064 266-MHz	<b>Y</b>	<b>Y</b>	<b>Y</b>	<b>Y</b>
Floppy Disk Drive 1.44 MB	Dedicated bay	<b>Y</b>	<b>Y</b>	<b>Y</b>	<b>Y</b>
CD-ROM 600 Mbyte	5.25" SCSI bay	<b>Y</b>	<b>Y</b>	<b>Y</b>	<b>Y</b>
Ethernet, Sound, Headset, Microphone, Mouse		<b>Y</b>	<b>Y</b>	<b>Y</b>	<b>Y</b>
Operating system		<b>Y</b>	<b>Digital UNIX / OpenVMS</b>	<b>Y</b>	<b>Digital UNIX/Windows NT</b>
Memory (a)	1 bank	<b>Y</b>	<b>64 MB</b>	<b>Y</b>	<b>128 MB</b>
Cache		<b>Y</b>	<b>2 MB</b>	<b>Y</b>	<b>2 MB</b>
Internal storage	1" SCSI bay	<b>Y</b>	<b>2 GB</b>	<b>Y</b>	<b>2 GB</b>
Graphics (b)	1 PCI slot 2 PCI slots	<b>Y</b>	<b>PowerStorm 3D30</b>	<b>Y</b>	<b>ZLXp-L2</b>
User Documentation-English		<b>Y</b>	<b>Y</b>	<b>Y</b>	<b>Y</b>

Available resources after configuration					
I/O slots	PCI-64 bit (c) PCI-32 bit		1 2		1 1
Memory banks			1		1
SCSI bays	Two 3.5 x 1" or One 3.5 x 1.6" bay		2 x 1" or 1 x 1.6"		2 x 1" or 1 x 1.6"
<b>1. Country Options</b>	<b>Select</b>		<b>1</b>		<b>1</b>
Keyboard (d)		<b>M</b>	<b>LK47W-xx / LK46W-xx</b>	<b>M</b>	<b>LK47W-xx / LK46W-xx</b>
Power Cord (e)		<b>M</b>	<b>BN19P-xx</b>	<b>M</b>	<b>BN19P-xx</b>
<b>Note:</b> LK47W-AA and LK46W-AA, English keyboards, include U.S. power cord; power cord does not need to be ordered separately.					
<b>2. Color Monitors</b>	<b>Select</b>		<b>1</b>		<b>1</b>
17" Color Monitor (f)		<b>M</b>	<b>VRT17-WA/W3/W4</b>	<b>M</b>	<b>VRT17-WA/W3/W4</b>
21" Color Monitor (f)		<b>M</b>	<b>VRC21-WA/W3/W4</b>	<b>M</b>	<b>VRC21-WA/W3/W4</b>
<b>3. Additional Memory</b>	<b>Select</b>		<b>0 or 1</b>		<b>0 or 1</b>
32-Mbyte	1 bank	<b>O</b>	<b>MSP01-FA</b>	<b>O</b>	<b>MSP01-FA</b>
64-Mbyte	1 bank	<b>O</b>	<b>MSP01-FB</b>	<b>O</b>	<b>MSP01-FB</b>
128-Mbyte	1 bank	<b>O</b>	<b>MSP01-FC</b>	<b>O</b>	<b>MSP01-FC</b>
256-Mbyte	1 bank	<b>O</b>	<b>MSP01-FD</b>	<b>O</b>	<b>MSP01-FD</b>
<b>4. Additional hard drives</b>	<b>Select</b>		<b>Two 1" or One 1.6"</b>		<b>Two 1" or One 1.6"</b>
1.05 Gbyte	1" or 1.6" SCSI bay	<b>O</b>	<b>PBXRW-EA</b>	<b>O</b>	<b>PBXRW-EA</b>
2.1 Gbyte	1" or 1.6" SCSI bay	<b>O</b>	<b>PBXRW-JB</b>	<b>O</b>	<b>PBXRW-JB</b>
4.3 Gbyte (g)	1.6" SCSI bay	<b>O</b>	<b>PBXRW-NA</b>	<b>O</b>	<b>PBXRW-NA</b>
<b>5. Software Media and Documentation</b>					
Digital UNIX		<b>O</b>	<b>QA-MT4AA-H8</b>	<b>O</b>	<b>QA-MT4AA-H8</b>
OpenVMS V6.2		<b>O</b>	<b>QA-MT1AA-H8</b>		
OpenVMS V6.2-1H1 (h)		<b>O</b>	<b>QA-MT1AG-H8</b>		
<b>6. Hardware System Lock</b>					
Kensington Lock		<b>O</b>	<b>PCP3H-AG</b>	<b>O</b>	<b>PCP3H-AG</b>
<b>6. Additional Options:</b> Refer to AlphaStation Options for a comprehensive list of qualified options (i)					

## AlphaStation 500/266 BASE CONFIGURATIONS

Y=in base configuration; M=mandatory option; O=option

AlphaStation 500/266	Resources Used		Digital UNIX	OpenVMS	Windows NT
Operates at: 120V/240V			<b>PB54A-AA</b>	<b>PB54A-BA</b>	<b>PB54A-CA</b>
CPU Alpha microprocessor	21164 266-MHz	Y	Y	Y	Y
Floppy Disk Drive 1.44 MB	Dedicated bay	Y			Y
CD-ROM 600 MB	5.25" SCSI bay	Y	Y	Y	Y
Ethernet, Sound, Headset, Microphone, Mouse		Y	Y	Y	Y
Cache		Y	<b>2 Mbyte</b>	<b>2 Mbyte</b>	<b>2 Mbyte</b>
Integration Service		Y	Y	Y	Y
Operating System		Y	Y	Y	Y
User Documentation - English		Y	Y	Y	Y

Remaining available resources						
I/O slots	PCI-64 bit	(c)		1	1	1
	PCI-32 bit			3	3	3
Memory banks				2	2	2
SCSI bays	Three 3.5 x 1" or One 3.5 x 1" and One 3.5 x 1.6" bays			3 x 1" or 1 x 1" and 1 x 1.6"	3 x 1" or 1 x 1" and 1 x 1.6"	3 x 1" or 1 x 1" and 1 x 1.6"
<b>1. Country Options</b>	<b>Select</b>			1	1	1
Keyboard	(d) Select 1		M	LK47W-xx / LK46W-xx	LK47W-xx/LK46W-xx	LK47W-xx/LK46W-xx
Power Cord	(e) Select 1		M	BN19P-xx	BN19P-xx	BN19P-xx
<b>Note:</b> LK47W-AA and LK46W-AA, English keyboards, include U.S. power cord; power cord does not need to be ordered separately.						
<b>2. Memory</b>	<b>Memory Required</b>	1		<b>Minimum Required</b>	<b>Minimum Required</b>	<b>Minimum Required</b>
<b>Optional Available</b>	<b>Optional Available</b>	1	Select	32-Mbyte	32-Mbyte	32-Mbyte
		1		1	1	1
32-Mbyte	1 bank		M	MSP01-FA	MSP01-FA	MSP01-FA
64-Mbyte	1 bank		M	MSP01-FB	MSP01-FB	MSP01-FB
128-Mbyte	1 bank		M	MSP01-FC	MSP01-FC	MSP01-FC
256-Mbyte	1 bank		M	MSP01-FD	MSP01-FD	MSP01-FD
<b>3. Hard drive required</b>	<b>1</b>	Select		1 or 2	1 or 2	1 or 2
1.05 Gbyte	1.0" or 1.6" SCSI bay		M	PBXRW-EA	PBXRW-EA	PBXRW-EA
2.1 Gbyte	1.0" or 1.6" SCSI bay		M	PBXRW-JB	PBXRW-JB	PBXRW-JB
4.3 Gbyte	(g) 1.6" SCSI bay		M	PBXRW-NA	PBXRW-NA	PBXRW-NA
<b>4. Color Monitors</b>	<b>Select</b>			1	1	1
17" Color Monitor	(f)		O	VRT17-WA/W3/W4	VRT17-WA/W3/W4	VRT17-WA/W3/W4
21" Color Monitor	(f)		O	VRC21-WA/W3/W4	VRC21-WA/W3/W4	VRC21-WA/W3/W4
<b>5. Graphics required</b>	<b>1</b>	Select		1	1	1
PowerStorm 3D30	(b) 1 PCI slot		M	PBXGB-AA	PBXGB-AA	PBXGB-AA
PowerStorm 4D20	(b) 1 PCI slot		M	PBXGB-CA	PBXGB-CA	PBXGB-CA
ZLXp-L1 24-plane Pixelvision	(b) 1 PCI Slot		M	PBXGC-AA	PBXGC-AA	PBXGC-AN
ZLXp-L2 24-plane Pixelvision	(b) 2 PCI Slots		M	PBXGC-BA	PBXGC-BA	PBXGC-BN
E&S Freedom Series 3150 3 Performance Modules 1-Mbyte texture memory	(b) 1 64-bit PCI slot		M	PBXGE-BB		
E&S Freedom Series 3250 5 Performance Modules 1-Mbyte texture memory	(b) 1 64-bit PCI slot		M	PBXGE-BD		
E&S Freedom Series 3400 8 Performance Modules 4 Mbyte texture memory	(b) 1 64-bit PCI slot		M	PBXGE-BG		

## AlphaStation 500/266 BASE CONFIGURATIONS *(continued)*

Y=in base configuration; M=mandatory option; O=option

AlphaStation 500/266	Resources Used	Digital UNIX	OpenVMS	Windows NT
Operates at: 120V/240V		PB54A-AA	PB54A-BA	PB54A-CA

5a. E&S Graphics Memory Upgrade				
4-Mbyte Texture memory module		O	PBXGE-CB	PBXGE-CB
16-Mbyte Texture memory module		O	PBXGE-CC	PBXGE-CC
6. Software Media/Documentation				
Digital UNIX		O	QA-MT4AA-H8	
OpenVMS V6.2		O		QA-MT1AA-H8
OpenVMS V6.2-1H1 (h)		O		QA-MT1AG-H8
7. Hardware System Lock				
Kensington Lock		O	PCP3H-AG	PCP3H-AG
8. Additional Options Refer to AlphaStation Options for a comprehensive list of qualified options. (i)				

- (a) Eight DIMM slots support two memory options (4 DIMMs per option). Memory options can be mixed.
- (b) Up to 3 PowerStorm graphics options and 3 monitors are supported on Digital UNIX, OpenVMS and Windows NT systems. Graphics options require Digital Open3D media, included in factory installed software (FIS). Windows NT graphics options include Graphics Support Services Software license, media and documentation. Windows NT graphics options must be homogeneous, (three PowerStorm 3D30 options or three PowerStorm 4D20 options). 3D multi screen not hardware accelerated for Windows NT.
- Graphics options are supported in the following combinations on Digital UNIX, OpenVMS and Windows NT systems:**
- Three PowerStorm 3D30 options, or
  - Three PowerStorm 4D20 options, or
  - Any combination of PowerStorm 3D30 and PowerStorm 4D20 options are supported on Digital UNIX and OpenVMS systems. Support for Windows NT must be homogeneous.
  - One ZLXp-L1, or
  - One ZLXp-L2 (uses two PCI slots)
- E&S Freedom graphics cannot be mixed with any other graphics option and are supported on Digital UNIX systems only.
- (c) Bottom two PCI slots support 1/2 length PCI options only
- (d) Select country-specific keyboard from AlphaStation Options section. LK46W-xx = PS/2 style; LK47W-xx = VMS/VT style.
- (e) Select country-specific power cord from AlphaStation Options section.
- (f) -WA = NH (Northern Hemisphere) monitor with 120V power cord, -W3 = NH monitor without power cord, -W4 = SH (Southern Hemisphere) monitor without power cord; select country specific power cord for -W3 and -W4 variants.
- (g) Maximum of one 1.6" disk drive supported.
- (h) OpenVMS V6.2-1H1 kit is required for AlphaStation 500. It must be installed over OpenVMS V6.2 media when reloading operating system
- (i) Check availability of PCI slots before adding additional options (initially 4 PCI).

## AlphaStation 500/333 ADVANTAGE CONFIGURATIONS

Y=in base configuration; M=mandatory option; O=option

AlphaStation 500/333	Resources Used		Digital UNIX / OpenVMS		Digital UNIX / Windows NT
Application Profile			<b>2D CAD</b>		<b>3D CAD</b>
Includes: (AA = 120V, AB = 240V)			<b>PB551-AA / PB551-BA</b>		<b>PB551-AB / PB551-CA</b>
CPU Alpha microprocessor	21064 333-MHz	<b>Y</b>	<b>Y</b>	<b>Y</b>	<b>Y</b>
Floppy Disk Drive 1.44 MB	Dedicated bay	<b>Y</b>	<b>Y</b>	<b>Y</b>	<b>Y</b>
CD-ROM 600 Mbyte	5.25" SCSI bay	<b>Y</b>	<b>Y</b>	<b>Y</b>	<b>Y</b>
Ethernet, Sound, Headset, Microphone, Mouse		<b>Y</b>	<b>Y</b>	<b>Y</b>	<b>Y</b>
Operating system		<b>Y</b>	<b>Y</b>	<b>Y</b>	<b>Y</b>
Memory (a)	1 bank	<b>Y</b>	<b>64 MB</b>	<b>Y</b>	<b>128 MB</b>
Cache		<b>Y</b>	<b>2 MB</b>	<b>Y</b>	<b>2 MB</b>
Internal storage	1" bay 1 SCSI	<b>Y</b>	<b>2 GB</b>	<b>Y</b>	<b>2 GB</b>
Graphics (b)	1 PCI slot 2 PCI slots	<b>Y</b>	<b>PowerStorm 3D30</b>	<b>Y</b>	<b>ZLXp-L2</b>
User Documentation-English		<b>Y</b>	<b>Y</b>	<b>Y</b>	<b>Y</b>

Available resources after configuration					
I/O slots	PCI-64 bit (c) PCI-32 bit		<b>1</b> <b>2</b>		<b>1</b> <b>1</b>
Memory banks			<b>1</b>		<b>1</b>
SCSI bays	Two 3.5 x 1" or One 3.5 x 1.6" bay		<b>2 x 1" or</b> <b>1 x 1.6"</b>		<b>2 x 1" or</b> <b>1 x 1.6"</b>
<b>1. Country Options</b>	<b>Select</b>		<b>1</b>		<b>1</b>
Keyboard (d)		<b>M</b>	<b>LK47W-xx / LK46W-xx</b>	<b>M</b>	<b>LK47W-xx / LK46W-xx</b>
Power Cord (e)		<b>M</b>	<b>BN19P-xx</b>	<b>M</b>	<b>BN19P-xx</b>
<b>Note:</b> LK47W-AA and LK46W-AA, English keyboards, include U.S. power cord; power cord does not need to be ordered separately.					
<b>2. Color Monitors</b>	<b>Select</b>		<b>1</b>		<b>1</b>
17" Color Monitor (f)		<b>M</b>	<b>VRT17-WA/W3/W4</b>	<b>M</b>	<b>VRT17-WA/W3/W4</b>
21" Color Monitor (f)		<b>M</b>	<b>VRC21-WA/W3/W4</b>	<b>M</b>	<b>VRC21-WA/W3/W4</b>
<b>3. Additional Memory</b>	<b>Select</b>		<b>0 or 1</b>		<b>0 or 1</b>
32-Mbyte	1 bank	<b>O</b>	<b>MSP01-FA</b>	<b>O</b>	<b>MSP01-FA</b>
64-Mbyte	1 bank	<b>O</b>	<b>MSP01-FB</b>	<b>O</b>	<b>MSP01-FB</b>
128-Mbyte	1 bank	<b>O</b>	<b>MSP01-FC</b>	<b>O</b>	<b>MSP01-FC</b>
256-Mbyte	1 bank	<b>O</b>	<b>MSP01-FD</b>	<b>O</b>	<b>MSP01-FD</b>
<b>4. Additional hard drives</b>	<b>Select</b>		<b>Two 1" or One 1.6"</b>		<b>Two 1" or One 1.6"</b>
1.05 Gbyte	1" or 1.6" SCSI bay	<b>O</b>	<b>PBXRW-EA</b>	<b>O</b>	<b>PBXRW-EA</b>
2.1 Gbyte	1" or 1.6" SCSI bay	<b>O</b>	<b>PBXRW-JB</b>	<b>O</b>	<b>PBXRW-JB</b>
4.3 Gbyte (g)	1.6" SCSI bay	<b>O</b>	<b>PBXRW-NA</b>	<b>O</b>	<b>PBXRW-NA</b>
<b>5. Software Media and Documentation</b>					
Digital UNIX		<b>O</b>	<b>QA-MT4AA-H8</b>	<b>O</b>	<b>QA-MT4AA-H8</b>
OpenVMS V6.2		<b>O</b>	<b>QA-MT1AA-H8</b>		
OpenVMS V6.2-1H1 (h)		<b>O</b>	<b>QA-MT1AG-H8</b>		
<b>6. Hardware System Lock</b>					
Kensington Lock		<b>O</b>	<b>PCP3H-AG</b>	<b>O</b>	<b>PCP3H-AG</b>
<b>7. Additional Options:</b> Refer to AlphaStation Options for a comprehensive list of qualified options (i)					

## AlphaStation 500/333 BASE CONFIGURATIONS

Y=in base configuration; M=mandatory option; O=option

AlphaStation 500/333	Resources Used		Digital UNIX	OpenVMS	Windows NT
Operates at: 120V/240V			<b>PB55A-AA</b>	<b>PB55A-BA</b>	<b>PB55A-CA</b>
CPU Alpha microprocessor	21164 333-MHz	Y	Y	Y	Y
Floppy Disk Drive 1.44 MB	Dedicated bay	Y			Y
CD-ROM 600 MB	5.25" SCSI bay	Y	Y	Y	Y
Ethernet, Sound, Headset, Microphone, Mouse		Y	Y	Y	Y
Cache		Y	<b>2 Mbyte</b>	<b>2 Mbyte</b>	<b>2 Mbyte</b>
Integration Service		Y	Y	Y	Y
Operating System		Y	Y	Y	Y
User Documentation - English		Y	Y	Y	Y

Remaining available resources						
I/O slots	PCI-64 bit	(c)		1	1	1
	PCI-32 bit			3	3	3
Memory banks				2	2	2
SCSI bays	Three 3.5 x 1" or One 3.5 x 1" and One 3.5 x 1.6" bays			3 x 1" or 1 x 1" and 1 x 1.6"	3 x 1" or 1 x 1" and 1 x 1.6"	3 x 1" or 1 x 1" and 1 x 1.6"
<b>1. Country Options</b>	<b>Select</b>			1	1	1
Keyboard	(d) Select 1		M	LK47W-xx / LK46W-xx	LK47W-xx/LK46W-xx	LK47W-xx/LK46W-xx
Power Cord	(e) Select 1		M	BN19P-xx	BN19P-xx	BN19P-xx
<b>Note:</b> LK47W-AA and LK46W-AA, English keyboards, include U.S. power cord; power cord does not need to be ordered separately.						
<b>2. Memory</b>	<b>Memory Required</b>	1		Minimum Required	Minimum Required	Minimum Required
	<b>Optional Available</b>	1	Select	32-Mbyte	32-Mbyte	32-Mbyte
				1	1	1
32-Mbyte	1 bank		M	MSP01-FA	MSP01-FA	MSP01-FA
64-Mbyte	1 bank		M	MSP01-FB	MSP01-FB	MSP01-FB
128-Mbyte	1 bank		M	MSP01-FC	MSP01-FC	MSP01-FC
256-Mbyte	1 bank		M	MSP01-FD	MSP01-FD	MSP01-FD
<b>3. Hard drive required</b>	<b>1</b>	Select		1 or 2	1 or 2	1 or 2
1.05 Gbyte	1.0" or 1.6" SCSI bay		M	PBXRW-EA	PBXRW-EA	PBXRW-EA
2.1 Gbyte	1.0" or 1.6" SCSI bay		M	PBXRW-JB	PBXRW-JB	PBXRW-JB
4.3 Gbyte	(g) 1.6" SCSI bay		M	PBXRW-NA	PBXRW-NA	PBXRW-NA
<b>4. Color Monitors</b>	<b>Select</b>			1	1	1
17" Color Monitor	(f)		O	VRT17-WA/W3/W4	VRT17-WA/W3/W4	VRT17-WA/W3/W4
21" Color Monitor	(f)		O	VRC21-WA/W3/W4	VRC21-WA/W3/W4	VRC21-WA/W3/W4
<b>5. Graphics required</b>	<b>1</b>	Select		1	1	1
PowerStorm 3D30	(b) 1 PCI slot		M	PBXGB-AA	PBXGB-AA	PBXGB-AA
PowerStorm 4D20	(b) 1 PCI slot		M	PBXGB-CA	PBXGB-CA	PBXGB-CA
ZLXp-L1 24-plane Pixelvision	(b) 1 PCI Slot		M	PBXGC-AA	PBXGC-AA	PBXGC-AN
ZLXp-L2 24-plane Pixelvision	(b) 2 PCI Slots		M	PBXGC-BA	PBXGC-BA	PBXGC-BN
E&S Freedom Series 3150 3 Performance Modules 1-Mbyte texture memory	(b) 1 64-bit PCI slot		M	PBXGE-BB		
E&S Freedom Series 3250 5 Performance Modules 1-Mbyte texture memory	(b) 1 64-bit PCI slot		M	PBXGE-BD		
E&S Freedom Series 3400 8 Performance Modules 4 Mbyte texture memory	(b) 1 64-bit PCI slot		M	PBXGE-BG		

**AlphaStation 500/333 BASE CONFIGURATIONS (continued)**

Y=in base configuration; M=mandatory option; O=option

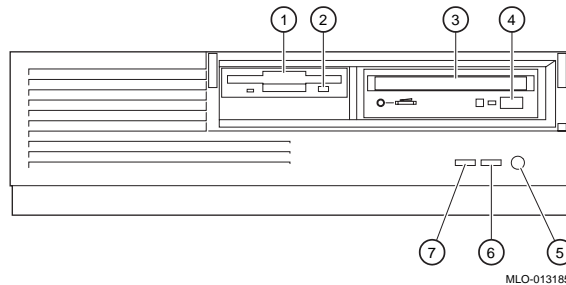
AlphaStation 500/333	Resources Used	Digital UNIX	OpenVMS	Windows NT
Operates at: 120V/240V		PB55A-AA	PB55A-BA	PB55A-CA

5a. E&S Graphics Memory Upgrade					
4-Mbyte Texture memory module		O	PBXGE-CB	PBXGE-CB	PBXGE-CB
16-Mbyte Texture memory module		O	PBXGE-CC	PBXGE-CC	PBXGE-CC
6. Software Media/Documentation					
Digital UNIX		O	QA-MT4AA-H8		
OpenVMS V6.2		O		QA-MT1AA-H8	
OpenVMS V6.2-1H1 (h)		O		QA-MT1AG-H8	
7. Hardware System Lock					
Kensington Lock		O	PCP3H-AG	PCP3H-AG	PCP3H-AG
8. Additional Options Refer to AlphaStation Options for a comprehensive list of qualified options. (i)					

- (a) Eight DIMM slots support two memory options (4 DIMMs per option). Memory options can be mixed.
- (b) Up to 3 PowerStorm graphics options and 3 monitors are supported on Digital UNIX, OpenVMS and Windows NT systems. Graphics options require Digital Open3D media, included in factory installed software (FIS). Windows NT graphics options include Graphics Support Services Software license, media and documentation. Windows NT graphics options must be homogeneous, (three PowerStorm 3D30 options or three PowerStorm 4D20 options). 3D multi screen not hardware accelerated for Windows NT.
- Graphics options are supported in the following combinations on Digital UNIX, OpenVMS and Windows NT systems:**
- Three PowerStorm 3D30 options, or
  - Three PowerStorm 4D20 options, or
  - Any combination of PowerStorm 3D30 and PowerStorm 4D20 options are supported on Digital UNIX and OpenVMS systems. Support for Windows NT must be homogeneous.
  - One ZLXp-L1, or
  - One ZLXp-L2 (uses two PCI slots)
- E&S Freedom graphics cannot be mixed with any other graphics option and are supported on Digital UNIX systems only.
- (c) Bottom two PCI slots support 1/2 length PCI options only
- (d) Select country-specific keyboard from AlphaStation Options section. LK46W-xx = PS/2 style; LK47W-xx = VMS/VT style.
- (e) Select country-specific power cord from AlphaStation Options section.
- (f) -WA = NH (Northern Hemisphere) monitor with 120V power cord, -W3 = NH monitor without power cord, -W4 = SH (Southern Hemisphere) monitor without power cord; select country specific power cord for -W3 and -W4 variants.
- (g) Maximum of one 1.6" disk drive supported.
- (h) OpenVMS V6.2-1H1 kit is required for AlphaStation 500. It must be installed over OpenVMS V6.2 media when reloading operating system
- (i) Check availability of PCI slots before adding additional options (initially 4 PCI).

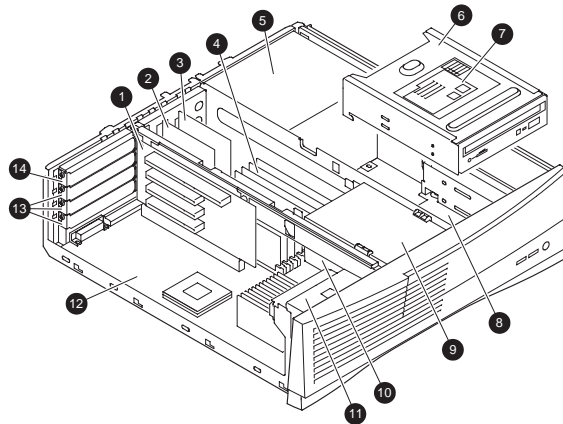
## AlphaStation 500 System Diagrams

### Front Controls, Indicators, and Drive Bay Locations



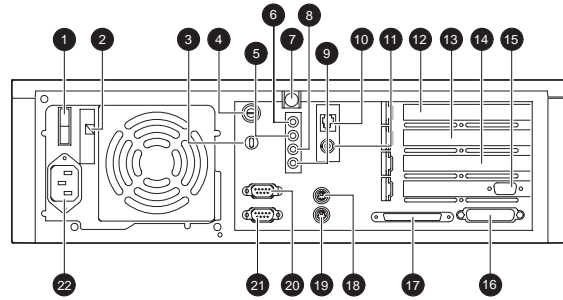
- |   |                       |  |
|---|-----------------------|--|
| 1 | Floppy drive bay      | Location of external bay for 3.5-inch Floppy diskette device.  |
| 2 | Diskette eject button | Releases a 3.5-inch diskette from the diskette drive.  |
| 3 | CD drive bay          | Location of 5.25-inch CD-ROM device.   |
| 4 | CD-ROM eject button   | Opens the CD loading drawer  |
| 5 | Halt/Reset button     | Jumper Selectable. When halt is pressed, system halts immediately. When reset is pressed, resets system and causes self-test to run. |
| 6 | LED Indicator         | DC On, lights when system is on.   |
| 7 | LED Indicator         | Lights to indicate SCSI activity.  |
| 8 | Louvered air intake   | Passageway for cooling air to enter system. Do not block air intake.   |

### AlphaStation 500/333 system unit components



1. Riser Card for PCI (peripheral component interconnect option cards)
2. Media adapter unit (MAU). Provides twisted pair and ThinWire Ethernet connections.
3. Audio Card
4. Memory modules (two banks with four DIMMs in each bank)
5. Power supply and fan
6. Right upper external drive bay for 5.25-inch x 1.6 inch device (CD-ROM)
7. Customer Configuration Label
8. Right lower internal drive bay for:
  - one** 3.5-inch x 1.6 inch device (optional) **or**
  - one** 3.5-inch x 1 inch device (optional) **or**
  - two** 3.5-inch x 1 inch devices (optional)
9. Left upper external drive bay for 3.5-inch x 1 inch device (Floppy)
10. Left lower internal drive bay for 3.5-inch x 1 inch device (optional)
11. System cooling fan
12. System board
13. PCI expansion slots, three 32-bit slots; one full length and two half length
14. PCI expansion slot, one 64-bit slot, one full length slot

Rear Connectors



MA00995

- |   |  |
|---|--|
| <ol style="list-style-type: none"> <li>1. On/Off Switch</li> <li>2. Voltage selection switch</li> <li>3. Lock Slot</li> <li>4. System (chassis) lock</li> <li>5. Sound card stereo LINE OUT connector</li> <li>6. Sound card stereo headphone jack</li> <li>7. Top Cover Screw</li> <li>8. Sound card microphone jack</li> <li>9. Sound card stereo LINE IN connector</li> <li>10. Twisted Pair connector</li> <li>11. ThinWire connector</li> <li>12. 64-bit PCI expansion slot</li> <li>13, 14, 15<br/>32-bit PCI expansion slots interface</li> <li>16 Enhanced bi-directional parallel port</li> <li>17 Wide SCSI connector - 68-pin</li> <li>18 Keyboard connector</li> <li>19 Mouse connector</li> <li>20 COM1 - Serial port connector</li> <li>21 COM2 - Serial port connector</li> <li>22 AC power connector</li> </ol> | <p>Connects the system to AC power</p> <p>Power</p> <p>Allows user to set voltage from factory set 230V to 115 VAC power</p> <p>Use with optional Kensington type security lock</p> <p>Provides security for internal components</p> <p>Routes audio signals to an external amplifier</p> <p>Connects headphones, or amplified speakers</p> <p>Secures top cover</p> <p>Connects microphone. (2.2Ohm to 2.5V)</p> <p>Brings audio signals into card (for example, from a stereo amplifier)</p> <p>Connection to the embedded Ethernet controller</p> <p>Connection to the embedded Ethernet controller</p> <p>Used for PCI expansion options</p> <p>Example shows PCI graphics adapter in bottom slot. Provides connection between video/graphics expansion module (option) and supported monitor.</p> <p>Connects industry-standard parallel printer or other parallel device. 25 pin sub-miniature D parallel port female connector</p> <p>Provides interface between system unit and external SCSI devices.</p> <p>68 pin high-density port (single-ended P cable)</p> <p>Connects a VMS or PS/2 style keyboard</p> <p>Connects a PS/2-compatible mouse. Miniature six position, circular DIN receptacle.</p> <p>Connects serial devices. Nine position sub-miniature D series male connectors.</p> <p>Connects serial devices. Nine position sub-miniature D series male connectors.</p> |
|---|--|