DIGITAL Personal Workstations i+-Series, a-Series and au-Series
V3.7—19 June 1998

DIGITAL Systems and Options Catalog

There are currently two versions of the Personal Workstation Systems and Options Catalog. This configuration menu contains the current i+-Series, a-Series and au-Series. Users with immediate requirements should select these models.

See DIGITAL Personal Workstations i+-Series, and Enhanced a-Series and au-Series for future requirements. The enhanced a-Series and au-Series models are active and orderable. They will begin to ship in mid-Q4.

DIGITAL Personal Workstations feature

i+-Series (Windows NT)	**a-Series (Windows NT)**	**au-Series (DIGITAL UNIX and OpenVMS)**
• Short-tower enclosure	• Short-tower enclosure	• Short-tower enclosure
• Pentium II 300/333 MHz, with Intel 440LX AGPset	• DIGITAL 21164 433/500/600 MHz	• DIGITAL 21164 433/500/600 MHz
• 512 KB cache	• 0 MB, 2 MB or 4 MB cache	• 0 MB, 2 MB or 4 MB cache
• On-board 3Dlabs Permedia P2 graphics on MLB, 4MB	• Optional graphics	• Optional graphics
• 6 slots (3 PCI, 2 PCI/ISA, 1 AGP)	• 5 slots (2 PCI, 3 PCI/ISA)	• 5 slots (2 PCI, 3 PCI/ISA)
• 4 DIMM banks (4 slots)	• 3 DIMM banks (6 slots)	• 3 DIMM banks (6 slots)
• 300W power supply	• 300W power supply	• 300W power supply
• 1.44 MB floppy drive	• 1.44 MB floppy drive	• 1.44 MB floppy drive
• CD-ROM drive	• CD-ROM drive	• CD-ROM drive
• On-board Qlogic UW SCSI adapter	• Qlogic UW SCSI adapter	• Qlogic UW SCSI adapter supports OpenVMS UltraSCSI CD-ROM
• On-board UltraDMA controller	• On-board EIDE controller for CD- ROM only	• On-board EIDE controller supports UNIX CD-ROM only
• On-board 16-bit audio	• On-board 16-bit audio	• On-board 16-bit audio
• On-board 10/100 BaseT Ethernet twisted pair (ThinWire—optional)	• 10/100 BaseT Ethernet twisted pair (thinwire—optional)	• 10/100 BaseT Ethernet twisted pair (thinwire—optional)
• Windows NT 4.0	• Windows NT 4.0	• DIGITAL UNIX 4.0D or OVMS 7.1-1H1
• Includes microphone and headset	• Includes microphone and headset	• Includes microphone and headset

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Step 1—DIGITAL Personal Workstations

DIGITAL Personal Workstations are available through distribution partners. A list of eligible partners is available on DIGITAL Business Link or through a local DIGITAL Sales Office.

DIGITAL Personal Workstations may be ordered as:

- System Building Blocks are designed for "a la carte" ordering and distributor integration. System Building Blocks contain a system kernel, minimum of 64 MB memory (except for Intel i+ package), UltraSCSI integrated disk controller, 4.3 GB UltraSCSI hard disk drive (except for i+ Series UltraDMA system), and factory-installed Windows NT, DIGITAL UNIX or OpenVMS operating system.
- Packaged Systems are designed for ease of ordering and stocking. Packaged Systems contain a system kernel, a minimum of 64 MB memory (except for Intel i+ package), UltraSCSI integrated disk controller (except for Intel i+ package), 4.3 GB hard disk drive, graphics controller, and factory-installed Windows NT operating system.

DIGITAL Personal Workstations come standard with a three-year limited warranty. Year one features on-site service; years two and three are return to DIGITAL service, parts only. This warranty represents one of the most comprehensive in the industry.

System Building Blocks

- Selection of a System and Country Kit from Steps 1 and 2 are mandatory
- Additional options in Steps 3 through 12 are optional.

i+-Series

Order Number	CPU	Operating System	Memory / Cache	Graphics	Controller	Hard Disk Drive
SN-K3B5W-VA	266i+	Windows NT 4.0	32 MB / 512 KB	Permedia P2[1] 4MB SGRAM	UltraDMA	4.3 GB EIDE disk
SN-K3B6W-VC	300i+	Windows NT 4.0	64 MB / 512 KB	Permedia P2[1] 4MB SGRAM	UltraSCSI	4.3 GB UltraSCSI disk
SN-K3B6W-VH	300i+	Windows NT 4.0	128 MB / 512 KB	Permedia P2[1] 4MB SGRAM	UltraSCSI	4.3 GB UltraSCSI disk
SN-K3B7W-VC	333i+	Windows NT 4.0	64 MB / 512 KB	Permedia P2[1] 4MB SGRAM	UltraSCSI	4.3 GB UltraSCSI disk
SN-K3B7W-VE	333i+	Windows NT 4.0	128 MB / 512 KB	Permedia P2[1] 4MB SGRAM	UltraSCSI	4.3 GB UltraSCSI disk

1. Permedia P2 graphics are onboard and do not use a PCI slot.

a-Series

Order Number	CPU	Operating System	Memory / Cache	Graphics	Controller	Hard Disk Drive
SN-B3AAP-SB	433a	Windows NT 4.0	64 MB / 0 MB	—	UltraSCSI	4.3 GB SCSI disk
SN-B3AAP-SH	433a	Windows NT 4.0	512 MB / 0 MB	—	UltraSCSI	4.3 GB SCSI disk
SN-B3DAP-SB	500a	Windows NT 4.0	64 MB / 0 MB	—	UltraSCSI	4.3 GB SCSI disk
SN-B3DAP-SH	500a	Windows NT 4.0	512 MB / 0 MB	—	UltraSCSI	4.3 GB SCSI disk
SN-B3EAP-SB	600a	Windows NT 4.0	64 MB / 0 MB	—	UltraSCSI	4.3 GB SCSI disk
SN-B3EAP-SH	600a	Windows NT 4.0	512 MB / 0 MB	—	UltraSCSI	4.3 GB SCSI disk

au-Series (DIGITAL UNIX)

Order Number	CPU	Operating System	Memory / Cache	Graphics	Controller	Hard Disk Drive
SN-B3AAU-SB	433au	DIGITAL UNIX	64 MB / 0 MB,	—	UltraSCSI	4.3 GB SCSI disk
SN-B3AAU-SH	433au	DIGITAL UNIX	512 MB / 0 MB	—	UltraSCSI	4.3 GB SCSI disk
SN-B3AAU-WL	433au	DIGITAL UNIX	64 MB / 2 MB	—	UltraSCSI	2.1 GB SCSI disk
SN-B3DAU-SB	500au	DIGITAL UNIX	64 MB / 0 MB	—	UltraSCSI	4.3 GB SCSI disk
SN-B3DAU-SH	500au	DIGITAL UNIX	512 MB / 0 MB	—	UltraSCSI	4.3 GB SCSI disk
SN-B3EAU-SB	600au	DIGITAL UNIX	64 MB / 0 MB	—	UltraSCSI	4.3 GB SCSI disk
SN-B3EAU-SH	600au	DIGITAL UNIX	512 MB / 0 MB	—	UltraSCSI	4.3 GB SCSI disk

Step 1—DIGITAL Personal Workstations *(continued)*

System Building Blocks *(continued)*

au-Series (OpenVMS)

Order Number	CPU	Operating System	Memory / Cache	Graphics	Controller	Hard Disk Drive
SN-B3AAV-SB	433au	OpenVMS	64 MB / O MB	—	UltraSCSI	4.3 GB SCSI disk
SN-B3AAV-SD	433au	OpenVMS	128 MB / O MB	—	UltraSCSI	4.3 GB SCSI disk
SN-B3AAV-SH	433au	OpenVMS	512 MB / O MB	—	UltraSCSI	4.3 GB SCSI disk
SN-B3DAV-SB	500au	OpenVMS	64 MB / O MB	—	UltraSCSI	4.3 GB SCSI disk
SN-B3DAV-SD	500au	OpenVMS	128 MB / O MB	—	UltraSCSI	4.3 GB SCSI disk
SN-B3DAV-SH	500au	OpenVMS	512 MB / O MB	—	UltraSCSI	4.3 GB SCSI disk
SN-B3EAV-SB	600au	OpenVMS	64 MB / O MB	—	UltraSCSI	4.3 GB SCSI disk
SN-B3EAV-SD	600au	OpenVMS	128 MB / O MB	—	UltraSCSI	4.3 GB SCSI disk
SN-B3EAV-SH	600au	OpenVMS	512 MB / O MB	—	UltraSCSI	4.3 GB SCSI disk

Packaged Systems

- Selection of a System and Country Kit from Steps 1 and 2 are mandatory.
- Additional options in Steps 3 through 12 are optional.
- Bulk system orders must include Country Kits equal to the total number of systems ordered.

i+-Series

Order Number	CPU	Operating System	Memory / Cache	Graphics	Controller	Hard Disk Drive
SN-K3B5W-VA	266i+	Windows NT 4.0	32 MB / 512 KB	Permedia P2[1] 4MB SGRAM	UltraDMA	4.3 GB EIDE disk
SN-K3B6W-VC	300i+	Windows NT 4.0	64 MB / 512 KB	Permedia P2[1] 4MB SGRAM	UltraSCSI	4.3 GB UltraSCSI disk
SN-K3B6W-VD	300i+	Windows NT 4.0	64 MB / 512 KB	PowerStorm 4D30T, 4MB	UltraSCSI	4.3 GB UltraSCSI disk
SN-K3B7W-VC	333i+	Windows NT 4.0	64 MB / 512 KB	Permedia P2[1] 4MB SGRAM	UltraSCSI	4.3 GB UltraSCSI disk
SN-K3B7W-VD	333i+	Windows NT 4.0	64 MB / 512 KB	PowerStorm 4D30T, 4MB	UltraSCSI	4.3 GB UltraSCSI disk

1. Permedia P2 graphics are onboard and do not use a PCI slot.

a-Series

Order Number	CPU	Operating System	Memory / Cache	Graphics	Controller	Hard Disk Drive
SN-B3AAP-AB	433a	Windows NT 4.0	64 MB / 0 MB	Millenium II	UltraSCSI	4.3 GB SCSI disk
SN-B3AAP-FB	433a	Windows NT 4.0	64 MB / 0 MB	PowerStorm 4D30T	UltraSCSI	4.3 GB SCSI disk
SN-B3DAP-AB	500a	Windows NT 4.0	64 MB / 0 MB	Millenium II	UltraSCSI	4.3 GB SCSI disk
SN-B3DAP-FB	500a	Windows NT 4.0	64 MB / 0 MB	PowerStorm 4D30T	UltraSCSI	4.3 GB SCSI disk
SN-B3EAP-FB	600a	Windows NT 4.0	64 MB / 0 MB	PowerStorm 4D30T	UltraSCSI	4.3 GB SCSI disk

Step 2—Country Kit

- DIGITAL UNIX/OpenVMS universal country kits include two country-specific power cords, user documentation, and mouse. DIGITAL UNIX license included in package system.
- Windows NT country kit includes two country-specific power cords, user documentation, mouse, operating system license, media and documentation. Country kit ordered determines language of operating system factory installed.
- Country kit must be ordered for system to be operational. Only one country kit allowed per system.
- Bulk system orders must include Country Kits equal to the total number of systems ordered.
- Keyboards must be ordered separately.

Country	Intel Windows NT 4.0 Country Kits i+-Series	Alpha Windows NT 4.0 Country Kits a-Series	Windows NT 4.0 Language	DIGITAL UNIX 4.0D OpenVMS 7.1-1H1 Country Kits au-Series	DIGITAL UNIX 4.0D OpenVMS 7.1-1H1 H/W Users Doc au-Series
Americas					
United States	**SN-PCB4N-AA**	**SN-PBB4P-AA**	English	**SN-PBB4U-AA**	English
French Canada	**SN-PCB4N-AC**	**SN-PBB4P-AC**	French	**SN-PBB4U-AC**	French
LACR-Spanish	**SN-PCB4N-CS**	**SN-PBB4P-AR**	Spanish	**SN-PBB4U-AR**	Spanish
Europe					
Belgium	**SN-PCB4N-AB**	**SN-PBB4P-AB**	English	**SN-PBB4U-AB**	French
Denmark	**SN-PCB4N-AD**	**SN-PBB4P-AD**	Danish	**SN-PBB4U-AD**	English
United Kingdom	**SN-PCB4N-AE**	**SN-PBB4P-AE**	English	**SN-PBB4U-AE**	English
Finland	**SN-PCB4N-AF**	**SN-PBB4P-AF**	Finish	**SN-PBB4U-AF**	English
Germany	**SN-PCB4N-AG**	**SN-PBB4P-AG**	German	**SN-PBB4U-AG**	German
Netherlands	**SN-PCB4N-AH**	**SN-PBB4P-AH**	Dutch	**SN-PBB4U-AH**	English
Italy	**SN-PCB4N-AI**	**SN-PBB4P-AI**	Italian	**SN-PBB4U-AI**	Italian
Switzerland	**SN-PCB4N-AK**	**SN-PBB4P-AK**	French	**SN-PBB4U-AK**	French
Switzerland/ Germany	**SN-PCB4N-AL**	**SN-PBB4P-AL**	German	**SN-PBB4U-AL**	English
Sweden	**SN-PCB4N-AM**	**SN-PBB4P-AM**	Swedish	**SN-PBB4U-AM**	English
Norway	**SN-PCB4N-AN**	**SN-PBB4P-AN**	Norwegian	**SN-PBB4U-AN**	English
France	**SN-PCB4N-AP**	**SN-PBB4P-AP**	French	**SN-PBB4U-AP**	French
Spain	**SN-PCB4N-AS**	**SN-PBB4P-AS**	Spanish	**SN-PBB4U-AS**	Spanish
Israel	**SN-PCB4N-AT**	**SN-PBB4P-AT**	English	**SN-PBB4U-AT**	English
Portugal	**SN-PCB4N-AV**	**SN-PBB4P-AV**	English	**SN-PBB4U-AV**	English
Greece	**SN-PCB4N-BH**	**SN-PBB4P-BH**	English	**SN-PBB4U-BH**	English
Poland	**SN-PCB4N-BP**	**SN-PBB4P-BP**	Polish	**SN-PBB4U-BP**	English
Hungary	**SN-PCB4N-BQ**	**SN-PBB4P-BQ**	Hungarian	**SN-PBB4U-BQ**	English
Arabic	**SN-PCB4N-BR**	**SN-PBB4P-BR**	English	**SN-PBB4U-BR**	English
Russia	**SN-PCB4N-BT**	**SN-PBB4P-BT**	Russian	**SN-PBB4U-BT**	English
Turkey	**SN-PCB4N-BU**	**SN-PBB4P-BU**	English	**SN-PBB4U-BU**	English
Serbia	—	**SN-PBB4P-BY**	English	**SN-PBB4U-BY**	English
Iceland	**SN-PCB4N-CQ**	**SN-PBB4P-CQ**	English	**SN-PBB4U-CQ**	English
Czech Republic	**SN-PCB4N-CZ**	**SN-PBB4P-CZ**	Czech	**SN-PBB4U-CZ**	English
European	**SN-PCB4N-EC**	**SN-PBB4P-EC**	English	**SN-PBB4U-EC**	English
Asia Pacific					
Japan	**SN-PCB4N-AJ**	**SN-PBB4P-AJ**	Japanese	**SN-PBB4U-AJ**	Japanese
Australia/ NZ	**SN-PCB4N-AZ**	—	English	—	—
Taiwan	**SN-PCB4N-BI**	**SN-PBB4P-BI**	Trad. Chinese	**SN-PBB4U-BI**	English
South Korea	**SN-PCB4N-BK**	**SN-PBB4P-BK**	Korean	**SN-PBB4U-BK**	English
Far East	**SN-PCB4N-CA**	**SN-PBB4P-CA**	English	**SN-PBB4U-CA**	English
Philippines	**SN-PCB4N-CE**	**SN-PBB4P-CE**	English	**SN-PBB4U-CE**	English
Vietnam	**SN-PCB4N-CG**	**SN-PBB4P-CG**	English	**SN-PBB4U-CG**	English
Thailand	**SN-PCB4N-CP**	**SN-PBB4P-CP**	English	**SN-PBB4U-CP**	English
China	**SN-PCB4N-CV**	**SN-PBB4P-CV**	Simp.Chinese	**SN-PBB4U-CV**	English

Step 3—Keyboards (Optional)

Americas

DIGITAL VMS style keyboards used on Alpha, OpenVMS and DIGITAL UNIX products.

Windows NT/ DIGITAL UNIX Keyboard	Country	DIGITAL VMS Style Keyboard	Country
SN-LK97W-A2	United States	**LK46W-A2**	United States/United Kingdom
SN-LK97W-AC	French Canada	**LK46W-AC**	French Canada
SN-LK97W-AR	LACR-Spanish	—	—

Europe

Windows NT/ DIGITAL UNIX Keyboard	Country	DIGITAL VMS Style Keyboard	Country
SN-LK97W-AB	Belgium	**LK46W-AB**	Belgium
SN-LK97W-AD	Denmark	**LK46W-AD**	Denmark
SN-LK97W-AE	United Kingdom	—	—
SN-LK97W-AF	Finland	**LK46W-AF**	Finland
SN-LK97W-AG	Germany	**LK46W-AG**	Germany
SN-LK97W-AH	Netherlands	**LK46W-AH**	Netherlands
SN-LK97W-AI	Italy	**LK46W-AI**	Italy
SN-LK97W-AK	Switzerland	**LK46W-AK**	Switzerland
SN-LK97W-AF	Sweden	**LK46W-AM**	Sweden
SN-LK97W-AN	Norway	**LK46W-AN**	Norway
SN-LK97W-AP	France	**LK46W-AP**	France
SN-LK97W-AS	Spain	**LK46W-AS**	Spain
SN-LK97W-AT	Israel	**LK46W-AT**	Israel
SN-LK97W-AV	Portugal	**LK46W-AV**	Portugal
SN-LK97W-BH	Greece	**LK46W-BH**	Greece
SN-LK97W-BP	Poland	**LK46W-BP**	Poland
SN-LK97W-BQ	Hungary	**LK46W-BQ**	Hungary
SN-LK97W-BR	Arabic	—	—
SN-LK97W-BT	Cyrillic/Russian	**LK46W-BT**	Russia
SN-LK97W-BU	Turkey	**LK46W-BU**	Turkey
SN-LK97W-BW	Turkey	**LK46W-BW**	Turkey
SN-LK97W-BY	Serbia	**LK46W-BY**	Serbia
SN-LK97W-CQ	Iceland	—	—
SN-LK97W-BV	Czech Republic	**LK46W-BV**	Czech Republic
SN-LK97W-CZ	Slovak	**LK46W-CZ**	Slovak

Asia Pacific

Windows NT/ DIGITAL UNIX Keyboard	Country	DIGITAL VMS Style Keyboard	Country
SN-LK97W-AJ	Japan	—	—
SN-LK97W-BI	Taiwan	—	—
SN-LK97W-BK	South Korea	—	—
SN-LK97W-CB	Thailand	—	—

Note: Keyboards are not included in country kits, they must be ordered separately if required.

Step 4—Processor Upgrades (Optional)

SN-D3B5W-5U	266 MHz Pentium II processor, must match speed of first processor, for PWS 266i+, with 440LX
SN-D3B6W-5U	300 MHz Pentium II processor, must match speed of first processor, for PWS 300i+, with 440LX
SN-D3B7W-5U	333 MHz Pentium II processor, must match speed of first processor, for PWS 333i+, with 440LX
SN-PBXBB-AA	PWS 600a/au 600MHz CPU and Riser Upgrade
SN-PBXBA-JA	PWS 433/500 a/au to 600 a/au CPU Upgrade
SN-PBXBA-FA	PWS 266I to 600a to 600 and CPU Upgrade, replaces MLB and memory

Step 5—Memory (Optional)

i+-Series Memory

i+-Series, with 440LX chipsets supports four memory options (4 DIMM banks with 1 slot each)

SN-MSP01-JB	32 MB ECC SDRAM DIMMs (1 x 32 MB)
SN-MSP01-JC	64 MB ECC SDRAM DIMMs (1 x 64 MB)
SN-MSP01-JD	128 MB ECC SDRAM DIMMs (1 x 128 MB)

a- and au-Series Memory

a- and au- series support three memory options (3 DIMM banks with 2 slots each)

SN-MSP01-HB	32 MB ECC SDRAM DIMMs (2 x 16 MB)
SN-MSP01-HC	64 MB ECC SDRAM DIMMs (2 x 32 MB)
SN-MSP01-HD	128 MB ECC SDRAM DIMMs (2 x 64 MB)
SN-MSP01-HE[1]	256 MB ECC SDRAM DIMMs (2 x 128 MB)
SN-MSP01-HF	512 MB ECC SDRAM DIMMs (2 x 256 MB)

1. OpenVMS systems support maximum of 1 GB total memory.

a- and au-Series Cache Memory

Supported in MLB cache slot. Note: 433au system (SN-B3AAU-WL) includes 2MB cache.

SN-MSC01-AB	2 MB Level 3 SRAM cache
SN-MSC01-AC	4 MB Level 3 SRAM cache

Step 6—Storage (Optional)

- Systems include one hard disk drive
- Systems support three additional hard disk drives: one 3.5-inch x 1.0-inch hard disk drive in dedicated hard disk drive bay and two 3.5-inch x 1.0-inch hard disk drives supported in 5.25-inch removable media bays.

SCSI disk drives

Maximum of four SCSI drives supported per system on DIGITAL UNIX and Windows NT systems. A maximum of three SCSI drives supported per system on OpenVMS systems. (See system diagram)

SN-PBXRW-NB	4.3 GB UltraSCSI wide disk drive 7200 RPM, 1.0-inch or 1.6-inch bay (OpenVMS only)
SN-PBXRW-NC	4.3 GB UltraSCSI wide disk drive 7200 RPM, 1.0-inch or 1.6-inch bay
SN-PBXRW-RA[1]	4.3 GB UltraSCSI wide disk drive 10,000 RPM, 1.6" bay (includes fan kit)
SN-PBXRW-SA[1]	9.1 GB UltraSCSI wide disk drive 7200 RPM, 1.6-inch bay
SN-PBXRW-TA[1]	18.2 GB UltraSCSI wide disk drive 7200 RPM, 1.6-inch bay

1. Maximum two per system, supported in 5.25-inch removable media bays only.

Step 6—Storage (Optional) *(continued)*

Ultra DMA EIDE Drives

Ultra DMA EIDE disk drives are supported on i+-Series only, maximum of two per system.

SN-PCXRA-AT 4.3 GB Ultra DMA EIDE disk drive, 5400 RPM, 1.0-inch or 1.6-inch bay

SN-PCXRA-AU 6.4 GB Ultra DMA EIDE disk drive, 5400 RPM, 1.0-inch or 1.6-inch bay

Tape Drives

Maximum of two tape drives supported per system.

SN-TLZ10-LK 12/24 GB 4mm DAT internal SCSI tape drive, 1.6-inch front accessible bay

SN-TLZ09-LK 4/8 GB 4mm DAT internal SCSI tape drive, 1.6-inch front accessible bay

Floppy Drives

SN-PBXRX-BB 100 MB Floppy zip drive (Windows NT only)

Controllers/Adapters

Note: Multiple UltraSCSI controllers/adapters are supported on a-Series and au-Series systems shipped after March 1, 1998 with the following (or higher) Serial Numbers: NI810xxxx (US Manufacturing), AY810xxxx (Ayr/European Manufacturing), or ZG810xxxx (Singapore/Asia-Pacific Manufacturing).
Multiple UltraSCSI controllers/adapters are **not** supported on systems with shipped prior to March 1, 1998 with Serial Numbers lower than those listed above.

- Systems include an UltraSCSI adapter
- i+-Series systems supports one RAID controller.
- a-Series and au-Series systems shipping after March 1, 1998 support one additional Q-Logic UltraSCSI adapter or one RAID controller.
- An UltraSCSI adapter (Qlogic or Adaptec) and a RAID controller (KZPAC) are not supported in the same system enclosure.

	Maximum controllers/adapters supported per system	i+ Series	a Series	au Series
SN-KZPBA-CA[1]	Q-Logic 1040B UltraSCSI adapter, requires 1 PCI 32-bit slot	—	2	2
SN-PCTAZ-DE[1]	Adaptec 2940 UltraSCSI adapter, requires 1 PCI 32-bit slot	1	—	—
SN-KZPAC-AA[2]	1-port PCI-based RAID controller, 4MB EDRAM cache, requires 1 PCI 32-bit slot	1	1	1
SN-KZPAC-CA[2]	3-port PCI-based RAID controller, 4MB EDRAM cache, requires 1 PCI 32-bit slot, third port requires one additional PCI bulkhead slot, and one BN31K-0E bulkhead assembly kit.	1	1	1
SN-KZPAC-CB[2]	3-port PCI-based RAID controller, 8MB EDRAM cache, requires 1 PCI 32-bit slot, third port requires one additional PCI bulkhead slot, and one BN31K-0E bulkhead assembly kit.	1	1	1

1. Order UltraSCSI cable (BN38C-xx) with 68-pin HD to 68-pin VHDCI connectors. Required for UltraSCSI StorageWorks Pedestal enclosure attached to SN-PCTAZ-DE or SN-KZPBA-CA UltraSCSI adapters.
2. Order UltraSCSI cable (BN37A-xx) with two 68-pin VHDCI connectors. Required for UltraSCSI StorageWorks Pedestal enclosure attached to KZPAC RAID controller.

Step 7—Graphics Options (Optional)

Graphics Options require 1 PCI slot—Maximum supported per system		i+ Series	a Series	au Series
SN-PB2GA-KB	Matrox Millennium II graphics with 4 MB WRAM, maximum 8 MB WRAM	2	2	—
SN-PBXGB-AA	PowerStorm 3D30 graphics with 2 MB VRAM	—	1	3/3[1]
SN-PBXGK-AA	PowerStorm 4D10T graphics with 4 MB SGRAM	3[2]	2	—
SN-PBXGK-AB	PowerStorm 4D10T graphics with 8 MB SGRAM	3[2]	2	—
SN-PBXGB-CA	PowerStorm 4D20 graphics with 16 MB VRAM	—	1	3/3[1]
SN-PBXGD-AA	PowerStorm 4D30T 3D graphics with 4 MB texture memory	1	1	—
SN-PBXGD-AB	PowerStorm 4D30T 3D graphics with 16 MB texture memory	1	1	—
SN-PBXGI-AD	PowerStorm 4D51T 3D graphics with 4 MB texture memory	2	1	2[3]
SN-PBXGI-MB	PowerStorm 4D51T GFX 3D graphics with 16 MB texture memory	1	—	—

Graphics Options require 2 slots—Maximum supported per system		i+ Series	a Series	au Series
SN-PBXGI-AB	PowerStorm 4D50T 3D graphics with 16 MB VRAM, maximum 32 MB texture memory		1	1[3]
SN-PBXGI-AC[4]	PowerStorm 4D60T 3D graphics with 32 MB VRAM, plus 16MB texture memory, maximum 64 MB texture memory	—	1	1[3]

1. au-Series running DIGITAL UNIX and OpenVMS support a maximum of three PowerStorm 3D30s/4D20s running 2D/3D or a maximum of four PowerStorm 3D30s running 2D only.
2. Requires driver V2.0. Multihead support is 2D only. Included Permedia P2 with two additional PowerStorm 4D10T graphics options supports three-head graphics systems on Intel.
3. Not supported on OpenVMS.
4. Upgrading to 32 MB of texture memory requires replacing the existing 16 MB of texture memory.

Step 8—Graphics Memory Options (Optional)

		i+ Series	a Series	au Series
SN-PB2GA-KE	4 MB WRAM Frame Buffer Upgrade: Millennium II supported in Millennium II memory slot	X	X	—
SN-PBXGD-GB[1]	16 MB Texture memory for PowerStorm 4D30T supported in 4D30T memory slot	X	X	—
SN-PBXGK-GA	Additional 4 MB Texture memory for on-board P2 Graphics Chipset - to install in SO DIMM Slot	X	—	—
SN-PBXGI-GA	4 MB Texture memory for PowerStorm series supported in 4D40T, 4D50T, 4D60T memory slot	—	X	X[2]
SN-PBXGI-GB	16 MB Texture memory for PowerStorm series supported in 4D40T, 4D50T, 4D60T memory slot	—	X	X[2]
SN-PBXGI-GC	32 MB Texture memory for PowerStorm series supported in 4D40T, 4D50T, 4D60T memory slot	—	X	X[2]
SN-PBXGI-GD	64 MB Texture memory for PowerStorm 4D40T, 4D50T, 4D60T	—	X	X[2]

1. Adding texture memory to PowerStorm 4D30T requires removal of 4 MB texture memory installed in memory slot.
2. Not supported on OpenVMS.

Step 9—Color Monitors (Optional)

		i+ Series	a Series	au Series
FR-PCXBV-JZ	15”(13.9” viewable) Corporate Northern Hemisphere 120/240V	X	—	—
SN-PCXBV-JZ	15”(13.9” viewable) Corporate Northern Hemisphere 120/240V	X	X	X
SN-PCXBV-JY	15”(13.9” viewable) Corporate southern Hemisphere 120/240V	X	X	X
FR-PCXAV-KZ	15” TFT Flat Panel Display (15” VIS) Analog Input, Worldwide Variant	X	X	X
SN-PCXAV-KZ	15” TFT Flat Panel Display (15” VIS) Analog Input, Worldwide Variant	X	X	X
FR-PCXBV-FZ	17”(16.0” viewable) Corporate Northern Hemisphere 120/240V	X	X	X
SN-PCXBV-FZ	17”(16.0” viewable) Corporate Northern Hemisphere 120/240V	X	X	X
FR-PCXAV-VZ	17”(16.0” viewable) Professional Northern Hemisphere 120/240V	X	X	X
SN-PCXAV-VZ	17”(16.0” viewable) Professional Northern Hemisphere 120/240V	X	X	X
FR-PCXAV-CZ	19”(18.0” viewable) Professional Northern Hemisphere 120V	X	X	X
SN-PCXAV-CZ	19”(18.0” viewable) Professional Northern Hemisphere 120V	X	X	X
FR-PCXAV-TZ	19”(18.0” viewable) Professional Northern Hemisphere 120/240V	X	X	X
SN-PCXAV-TZ	19”(18.0” viewable) Professional Northern Hemisphere 120/240V	X	X	X
FR-PCXAV-WZ	21”(19.6” viewable) Professional Northern Hemisphere 120/240V	X	X	X
SN-PCXAV-WZ	21”(19.6” viewable) Professional Northern Hemisphere 120/240V	X	X	X
SN-PCXAV-AZ	24”(22.5” viewable) Professional Northern Hemisphere 120/240V	—	X	X
SN-PCXBV-FY	17”(16.0” viewable) Corporate Southern Hemisphere120/240V	X	X	X
FR-PCXAV-VY	17”(16.0” viewable) Professional Southern Hemisphere 120/240V	X	X	X
SN-PCXAV-VY	17”(16.0” viewable) Professional Southern Hemisphere 120/240V	X	X	X
SN-PCXAV-WY	21”(19.6” viewable) Professional Southern Hemisphere120/240V	X	X	X

Step 10—Network Options (Optional)

PCI-based Network options require 1 PCI slot	**Maximum supported per system**	**i+ Series**	**a Series**	**au Series**
SN-DE450-CA	EtherWORKS PCI 10mbs (twisted pair/AUI/BNC)	—	1	1
SN-DE500-BA	FastEthernet PCI 10/100mbs (twisted pair)	1	1	1
SN-DE500-FA	PC Ethernet (Fiber) DCI MMJ	1	—	—
SN-PBXNP-AC	PCI Token Ring adapter	1	1	1
SN-DEFPA-AB	PCI - FDDI adapter SAS fiber	1	1	1
SN-DEFPA-DB	PCI - FDDI adapter DAS Fiber	1	1	1
SN-DEFPA-MB	PCI - FDDI adapter DAS UTP	1	1	1
SN-DEFPA-UB	PCI - FDDI adapter SAS UTP	1	1	1
PBXDA-AA	PCI Asynchronous 4-port adapter	1	1	1
PBXDA-AB	PCI Asynchronous 8-port adapter	1	1	1
SN-PBXIP-AA	PCI ISDN BRI S/T	1	1	1
SN-PBXIP-AB	PCI ISDN BRI U	1	1	1
SN-DGLPA-FA	PCI ATM adapter	—	—	1[1]
SN-DGLPA-UA	PCI ATM adapter	—	—	1[1]

1. Not supported on OpenVMS.

Step 10—Network Options (Optional) *(continued)*

ISA-based Network options require 1 ISA slot	Maximum supported per system	i+ Series	a Series	au Series
SN-PCXHF-AA	ISA Fax/modem 28.8 Kbps	2	1	—
PBXDF-BA	ISA Fax/modem 28.8 Kbps	—	1	1
FR-PCXFA-AA	FAX/Modem 56 Kbps	1	—	—
System Enclosure Options		**i+ Series**	**a Series**	**au Series**
SN-PCXAN-DC	10BaseT/10Base2 Ethernet bulkhead Connector, AUI	1	—	—
SN-PCXAN-DD	10BaseT/10Base2 Ethernet bulkhead Connector, BNC	1	—	—
SN-PCXHA-AA	Power on/off Controller	1	1	1

Step 11—Input/ Multimedia Devices (Optional)

PBXWA-AA	2-button spaceball
PBXWB-AA	3-button trackball
PBXWT-AA	12x12 Digitizing tablet, 16-button cordless cursor 120V US wall mount power supply
PBXWT-AB	12x12 Digitizing tablet, 16-button cordless cursor 220V European wall mount power supply
PBXWT-AC	12x12 Digitizing tablet, 16-button cordless cursor 240V UK wall mount power supply
PBXWT-AD	12x12 Digitizing tablet, 16-button cordless cursor 100V Japan wall mount power supply
PBXWT-BA	2-button cordless click pen for all variants of PBXWT-Ax
FR-PCDJA-DE	Video Conferencing - NTSC/PAL Video Conferencing Card w/ camera - PCI Bus
FR-PCDJA-BN	Video Conferencing - NTSC/PAL Video Conferencing Card w/ camera - PCI Bus

Step 12—Hardware Supplemental Services (Optional)

FM-W**-**	Hardware supplemental price depends on total price of the order, type of extension (e.g. Onsite Next Business Day, Onsite same business day, 7 x 24, and number of months). Refer to "Multivendor Customer Services Quick Quote Card" for part numbers (In Europe, refer to on-line Quoting System). First * after W could be A through P, depending on total list price of the hardware. Second through fourth * represent different levels (e.g. XHW for Onsite next business day service, 4 hour Onsite same business day service, and 7 x 24 service). Last two ** represent duration in months (e.g. 12, 36, 60)
FM-WSDTP-IN	Hardware Installation

Step 12a—Software Supplemental Services—Windows NT

FM-HD5-****	5 x 9 Helpdesk Support
FM-HD7-****	7 x 24 Helpdesk Support
	First two ** after 5 or 7 represent the number of calls, and could be 05, 15, or 25. Last two ** represent duration in months, and could be 12, 36, or 60

Step 12b—Software Supplemental Services—UNIX

FM-3BUNS-12	12 Month FULL Software Supplemental Support Services
FM-3BUNS -36	36 Month FULL Software Supplemental Support Services
FM-3BUNS -60	60 Month FULL Software Supplemental Support Services
FM-3BUNN -12	12 Month NODE Software Supplemental Support Services
FM-3BUNN -36	36 Month NODE Software Supplemental Support Services
FM-3BUNN -60	60 Month NODE Software Supplemental Support Services

Step 13—Media and Documentation (optional)

a-Series and au-Series User Documentation

EK-ALMIG-SI	DIGITAL Personal Workstation Set Up and Installation Guide—English
EK-ALMIF-SI	DIGITAL Personal Workstation Set Up and Installation Guide—French
EK-ALMID-SI	DIGITAL Personal Workstation Set Up and Installation Guide—German
EK-ALMIJ-SI	DIGITAL Personal Workstation Set Up and Installation Guide—Japanese
EK-ALMIS-SI	DIGITAL Personal Workstation Set Up and Installation Guide—Spanish
EK-ALMII-SI	DIGITAL Personal Workstation Set Up and Installation Guide—Italian

DIGITAL UNIX User Documentation

QA-MT4AA-GZ	DIGITAL UNIX 4.0D Full Documentation kit
QA-MT4AB-GZ[1]	DIGITAL UNIX 4.0D End-User Documentation kit

1. Included in Full Documentation kit

DIGITAL UNIX Software Media and Optional Licenses

QA-MT4AA-H8	DIGITAL UNIX 4.0D Media & Documentation kit
QL-MT7AE-AA	DIGITAL UNIX 4.0D Unlimited User License
QL-MT6AE-AA	DIGITAL UNIX 4.0D Server Extensions License
QL-MT5AE-AA	DIGITAL UNIX 4.0D C Developer’s Extensions License
QL-MT7AM-3B	DIGITAL UNIX 4.0D 1-User Concurrent License
QL-MT7AM-3C	DIGITAL UNIX 4.0D 2-User Concurrent License
QL-MT7AM-3D	DIGITAL UNIX 4.0D 4-User Concurrent License
QL-MT7AM-3E	DIGITAL UNIX 4.0D 8-User Concurrent License
QL-MT7AM-3F	DIGITAL UNIX 4.0D 16-User Concurrent License
QL-MT7AM-3G	DIGITAL UNIX 4.0D 32-User Concurrent License
QL-MT7AM-3H	DIGITAL UNIX 4.0D 64-User Concurrent License

Note: All DIGITAL UNIX systems include 2-user Base license.

OpenVMS Media and Documentation

- OpenVMS Packaged and Base systems require operating system media and documentation for first system on site.
- Software Processor Code = E

QA-MT1AD-H8	OpenVMS V7.1-1H1 Media on CD-ROM
QA-MT1AA-H8	OpenVMS V7.1 media and on-line doc on CD-ROM
QA-001AA-GZ	OpenVMS hardcopy documentation

Step 13—Media and Documentation (optional) *(continued)*

OpenVMS Optional Licenses

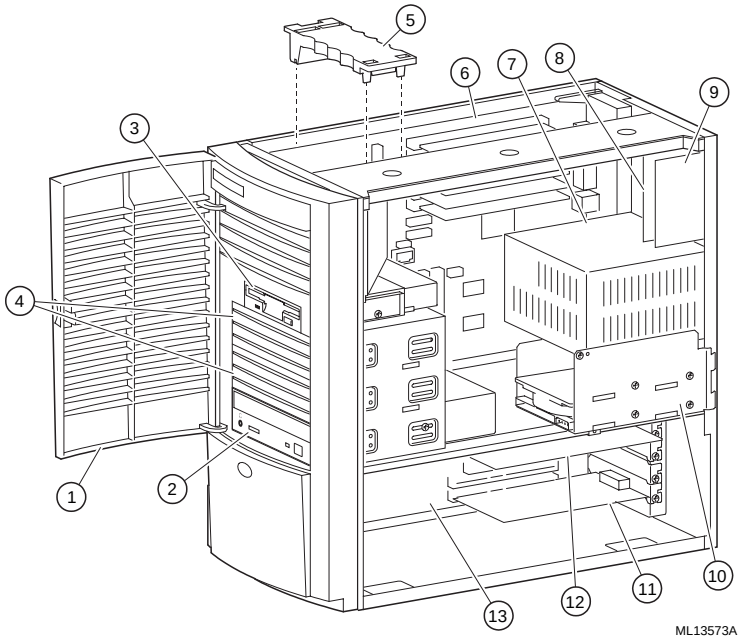
- OpenVMS Concurrent Use Licenses are not specific to a single system and can be moved between systems at user discretion. OpenVMS Concurrent Use Licenses can also be shared in a mixed OpenVMS VAX and OpenVMS Alpha Cluster.

QL-MT3AA-3B	OpenVMS Concurrent Use 1-user license
QL-MT3AA-3C	OpenVMS Concurrent Use 2-user license
QL-MT3AA-3D	OpenVMS Concurrent Use 4-user license
QL-MT3AA-3E	OpenVMS Concurrent Use 8-user license
QL-MT3AA-3F	OpenVMS Concurrent Use 16-user license
QL-MT3AA-3G	OpenVMS Concurrent Use 32-user license
QL-MT3AA-3H	OpenVMS Concurrent Use 64-user license
QL-MT3AA-3J	OpenVMS Concurrent Use 128-user license
QL-MT3AA-3K	OpenVMS Concurrent Use 256-user license
QL-MT2AE-AA	OpenVMS traditional unlimited user license

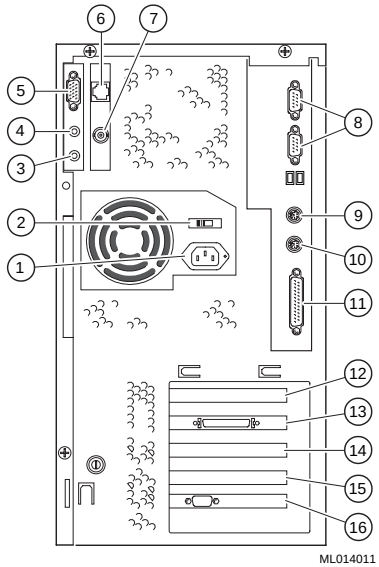
Specifications

Height	40.64 cm (16 inches)
Width	21.59 cm (8.5 inches)
Depth	44.45 cm (17.5 inches)

DIGITAL Personal Workstations System Diagram (a-Series, au-Series)

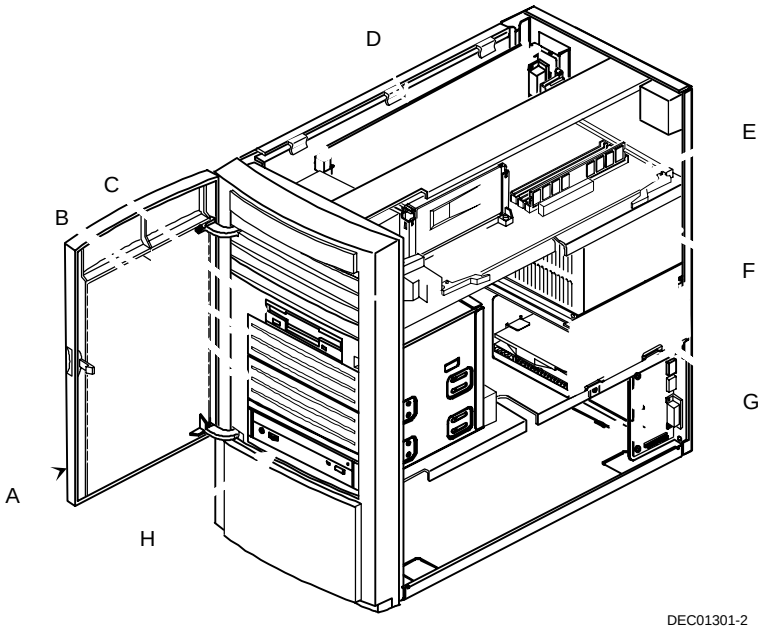


1. Front door assembly
2. 5.25” CD-ROM drive bay
3. 3.5” floppy diskette drive bay
4. Two 5.25” removable media bays
5. Main Logic Board retainer bracket
6. Main Logic Board
7. Power supply
8. Ethernet connector card (MAU or MII)
9. Audio connector card
10. Two 3.5” x 1” hard disk drive bays
11. 64-bit (or 32-bit) PCI option installed on riser card
12. ISA card installed in PCI/ISA combination slot
13. Riser card

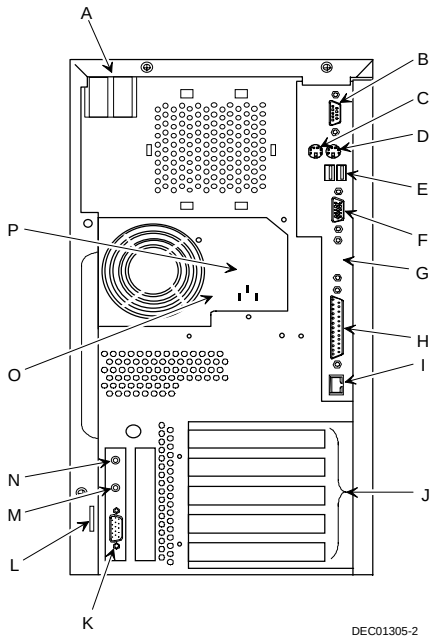


1. AC power connector
2. Voltage selector switch
3. Audio line In
4. Speaker Out
5. MIDI adapter or joystick connector
6. Ethernet Twisted pair
7. ThinWire Ethernet (optional)
8. Communication ports 1 and 2
9. Mouse port
10. Keyboard port
11. Parallel port
12. Slot 1: 32-bit PCI (half size slot)
13. Slot 2: 32-bit PCI/ISA (half size slot)
14. Slot 3: 32-bit PCI/ISA (full size slot)
15. Slot 4: 64-bit PCI/ISA (full size slot)
16. Slot 5: 64-bit PCI (full size slot)

DIGITAL Personal Workstations System Diagram (i+-Series)



A. Door assembly
B. Front access 5¼-inch
C. 3½-inch diskette drive
D. Main Logic Board
E. Pentium II processor module
F. Power supply
G. Internal 3½-inch drive bays (supports IDE, and wide SCSI hard disk)
H. CD-ROM drive



A. Optional AGP port connector
B. Video port connector
C. Keyboard connector
D. Mouse connector
E. USB ports
F. Serial port connector 1
G. Serial port connector 2
H. Parallel port connector
I. 10 Base-T port connector (RJ45)
J. Expansion board slots
K. MIDI/joystick port connector
L. Chassis lockdown
M. Speaker out
N. Line in (microphone)
O. ac line connector
P. Voltage select switch