



AlphaServer 300
V97-2.0—28 Oct 1997
DIGITAL Systems and Options Catalog

Product Description

The AlphaServer 300 4/266 delivers premium performance and provides access to tens of thousands of applications running on DIGITAL UNIX, OpenVMS or Microsoft Windows NT systems.

The AlphaServer 300 4/266 uses the Alpha microprocessor 21064A processor running at 266 MHz with 2 MB of onboard secondary cache. The CPU performance measures 5.18 SPECint95 and 6.27 SPECfp95.

The system is housed in a low-profile desktop enclosure, which is also rackmountable, with capacity for 512 MB of parity memory, 128-bit wide memory bus, four storage slots, and three option slots (one PCI, one combination PCI/ISA, and one ISA). The high performance PCI I/O bus, running at 132 MB/second, provides expansion for options such as high-performance graphics, networking, and SCSI adapters. Lower performance options are supported on the ISA bus. The system supports a wide variety of industry-standard peripherals and PCI/ISA options. Other standard features include integrated Twisted Pair/ThinWire Ethernet, an array of external ports for serial/parallel communications, and an external SCSI connector. This combination of standard features allows multiple in-box configurations without the need for additional tabletop options or expansion boxes.

ServerWORKS Manager provides advanced server and network management capabilities and is supplied with all AlphaServer systems. Simple Network Management Protocol (SNMP) enables information to pass from the managed system to the console for Digital UNIX, Windows NT, and OpenVMS for AlphaServers. Using ServerWORKS, the system manager can build and view topological maps of the network. Detailed server information is viewable, including system, network, storage, and environmental information. Alarms may be set against critical system parameters and events. All AlphaServer systems are supplied with management tools to complement ServerWORKS Manager. These include storage and application and database management tools. For more information, see the StorageWorks Software section of this catalog.

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Step 1—AlphaServer 300 Desktop Systems

- DIGITAL UNIX and OpenVMS packaged and base systems, ordered with a minimum of a 1.05 GB disk, include factory installed software (FIS).
- Windows NT packaged and base systems
 - North American variants include Windows NT Server 4.0 plus 10-client access license, media (CD-ROM) kit North American English.
 - Selection of language specific Windows NT license, media (CD-ROM) kit is mandatory for all non-North American variants, see Step 9 of this section.
- Options ordered will be factory installed unless specified as spares.

AlphaServer 300 Desktop Systems include

- Alpha microprocessor 21064A 266-MHz CPU with 2 Mbyte on-board secondary cache
- Slimline desktop enclosure with:
 - Three expansion slots: one PCI, one combination PCI/ISA, and one ISA
 - 8 SIMM memory slots support two memory options
 - 4 storage slots:
 - One Floppy diskette drive slot
 - One 5.25-inch removable media slot
 - Two 3.5-inch hard disk drive slots
 - Integrated Fast Narrow Single Ended (FNSE) SCSI-2 controller with DMA and external SCSI-2 connector
 - Integrated PCI-based high-performance Twisted Pair/ThinWire Ethernet
 - 210-W power supply
 - Two serial ports, support full modem control
 - One bidirectional enhanced parallel port
 - Keyboard port and mouse port
- 1.44 MB diskette drive
- 3-button mouse (frost white)
- North American variants include 120V power cord (North America, Japan). Mandatory selection of country-specific power cord for all non-North American variants.
- Hardware documentation
- Integrated advanced server management features, including ServerWORKS Manager kit¹
- Hardware warranty: three-year on-site¹
- Software warranty
 - 90-day SPD conformance with advisory telephone support for DIGITAL UNIX and OpenVMS.
 - Warranty on the Microsoft Windows NT Server 4.0 is conformance to the written material accompanying the software for a period of ninety days.
- Windows NT Server 4.0₂ plus 10-client access license, media (CD-ROM) kit or
- DIGITAL UNIX V4.0B unlimited user license, or
- OpenVMS V7.1 base license and Enterprise Integration Package, Release 2 (QP-5LVAE-AC)

1. Service upgrades are available; see Step 10 in this section.

2. Windows NT language specific media kit is mandatory for non-North American variants.

Desktop Packaged Systems include

- 600 MB CD-ROM—uses 5.25-inch removable media slot
- One 1.05 GB hard disk drive
- One 32 MB memory option

Note: Selection of graphics option is mandatory for Windows NT systems

Desktop Packaged Systems								
Order Number	Operating System	O/S Media	Power cord	Keyboard	Memory	Disk	Graphics	Monitor
PB30B-AA	Windows NT	Included ¹	120 V	Included	32 MB	1.05 GB	Mandatory	Required
PB30B-AB	Windows NT	Mandatory	Mandatory	Required	32 MB	1.05 GB	Mandatory	Required
PB30B-FC	DIGITAL UNIX	FIS	120 V	Included	32 MB	1.05 GB	Recommended	Recommended
PB30B-FD	DIGITAL UNIX	FIS	Mandatory	Required	32 MB	1.05 GB	Recommended	Recommended
PB30B-ME	OpenVMS	FIS	120 V	Included	32 MB	1.05 GB	Recommended	Recommended
PB30B-MF	OpenVMS	FIS	Mandatory	Required	32 MB	1.05 GB	Recommended	Recommended

1. Windows NT Server license, media (CD-ROM) kit North American English

Key: Mandatory items must be on purchase order at initial order acceptance

Required items are essential for full system operation.

Recommended items enhance system functionality

FIS= Factory Installed Software

Step 1—AlphaServer 300 Desktop Systems (continued)
Desktop Base Systems

- .. Selection of the graphics option is mandatory for Windows NT pedestal base systems.
- .. Base systems ordered with one hard disk include FIS.

Desktop Base Systems								
Order Number	Operating System	O/S Media	Power cord	Keyboard	Memory and Hard Disk ²	CD-ROM Drive	Graphics	Monitor
PB30C-AA	Windows NT	Included ¹	120 V	Required	Mandatory	Mandatory	Mandatory	Required
PB30C-AB	Windows NT	Mandatory	Mandatory	Required	Mandatory	Mandatory	Mandatory	Required
PB30C-FC	DIGITAL UNIX	FIS ²	Included	Required	Mandatory	Recommended	Recommended	Recommended
PB30C-FD	DIGITAL UNIX	FIS ²	Required	Required	Mandatory	Recommended	Recommended	Recommended
PB30C-ME	OpenVMS	FIS ²	Included	Required	Mandatory	Recommended	Recommended	Recommended
PB30C-MF	OpenVMS	FIS ²	Required	Required	Mandatory	Recommended	Recommended	Recommended

1. Windows NT Server license, media (CD-ROM) kit North American English.

Key: Mandatory items must be on purchase order at initial order acceptance.

Required items are essential for full system operation

Recommended items enhance system functionality

FIS=Factory Installed Software

Step 1a—AlphaServer 300 Rackmount Systems
Rackmount Packaged Systems

- .. Include 600 MB CD-ROM drive—uses 5.25-inch removable media slot

Note: Selection of graphics option is mandatory for Windows NT systems

Rackmount Packaged Systems								
Order Number	Operating System	O/S Media	Power cord	Keyboard	Memory	Disk	Graphics	Monitor
PB30P-AA	Windows NT	Included ¹	120 V	Included	32 MB	1.05 GB	Mandatory	Required
PB30P-AB	Windows NT	Mandatory	240 V	Required	32 MB	1.05 GB	Mandatory	Required
PB30P-FC	DIGITAL UNIX	FIS	120 V	Included	32 MB	1.05 GB	Recommended	Recommended
PB30P-FD	DIGITAL UNIX	FIS	240 V	Required	32 MB	1.05 GB	Recommended	Recommended
PB30P-ME	OpenVMS	FIS	120 V	Included	32 MB	1.05 GB	Recommended	Recommended
PB30P-MF	OpenVMS	FIS	240 V	Required	32 MB	1.05 GB	Recommended	Recommended

1. Windows NT Server license, media (CD-ROM) kit North American English.

Key: Mandatory items must be on purchase order at initial order acceptance

Required items are essential for full system operation

Recommended items enhance system functionality

FIS = Factory Installed Software

Step 1a—AlphaServer 300 Rackmount Systems (continued)
Rackmount Base Systems

.. Selection of 600 MB CD-ROM and a graphics option is mandatory for Windows NT base systems.

Note: Base systems ordered with one hard disk include FIS.

Rackmount Base Systems								
Order Number	Operating System	O/S Media	Power cord	Keyboard	Memory and Hard Disk ²	CD-ROM Drive	Graphics	Monitor
PB30S-AA	Windows NT	Included ¹	120 V	Required	Mandatory	Mandatory	Mandatory	Required
PB30S-AB	Windows NT	Mandatory	240 V	Required	Mandatory	Mandatory	Mandatory	Required
PB30S-FC	DIGITAL UNIX	FIS	120 V	Required	Mandatory	Recommended	Recommended	Recommended
PB30S-FD	DIGITAL UNIX	FIS	240 V	Required	Mandatory	Recommended	Recommended	Recommended
PB30S-ME	OpenVMS	FIS	120 V	Required	Mandatory	Recommended	Recommended	Recommended
PB30S-MF	OpenVMS	FIS	240 V	Required	Mandatory	Recommended	Recommended	Recommended

1. Windows NT Server license, media (CD-ROM) kit North American English.

Key: Mandatory items must be on purchase order at initial order acceptance

Required items are essential for full system operation

Recommended items enhance system functionality

FIS=Factory Installed Software

Step 2—Memory

.. Eight SIMM slots support two memory options for a maximum of 512 MB. Memory options can be mixed.

.. Packaged systems include 32 MB memory, one MSP01-BA. Base systems require minimum of 32 MB.

.. System maximum of 512 MB can be obtained by selecting a base system and two MSP01-BD 256 MB memory options.

MSP01-BA	32 MB (4 x 8 MB 70ns SIMMs)
MSP01-BB	64 MB (4 x 16 MB 70ns SIMMs)
MSP01-BC	128 MB (4 x 32 MB 70ns SIMMs)
MSP01-BD	256 MB (4 x 64 MB 70ns SIMMs)

Step 2a—Prestoserve Non-Volatile Random Access Memory (NVRAM)

.. Supported on DIGITAL UNIX systems only, maximum one Prestoserve option per system.

DJ-ML200-AA	2-MB PCI Prestoserve option
DJ-ML200-BA	4-MB PCI Prestoserve option
DJ-ML200-CA	8-MB PCI Prestoserve option

Step 3—Monitors

- .. Windows NT systems require a graphics monitor to run all functions.

SN-VRCX5-WA/W3/W4	15-inch (13.9-inch viewable image size) Corporate Series auto-scan color monitor, flat square invar CRT, 0.28 mm dot pitch, VGA to 1024 x 768 @ 85 Hz, TCO 92, MPRII, Energy Star, attached video cable. -WA=Northern Hemisphere with 120 V power cord -W3=Northern Hemisphere without power cord. Select country specific power cords for -W3 Northern Hemisphere and -W4 Southern Hemisphere variants.
SN-VRCX7-WA/W3/W4	17-inch (16.0-inch viewable image size) Corporate Series auto-scan color monitor, Flat square invar CRT, 0.28mm dot pitch, VGA to 1024 x 768 @ 85Hz, TCO 92, MPRII, Energy Star, attached video cable -WA = Northern Hemisphere with 120 V power cord -W3 = Northern Hemisphere without power cord -W4 = Southern Hemisphere without power cord. Select country-specific power cord for W3 and W4 variants.
SN-VRCX1-WA/W3/W4	21-inch (19.7-inch viewable image size) professional series auto-scan color monitor, Diamondtron CRT, 0.28 mm aperture grill pitch, VGA to 1600 x 1200 @ 75 Hz, TCO 92, MPRII, Energy Star, HD15 male to male video cable. -WA = Northern Hemisphere with 120 V power cord. -W3 = Northern Hemisphere without power cord. -W4 = Southern Hemisphere without power cord. Select country specific power cord for W3 and W4 variants.

Step 4—Storage

- .. Integrated Fast Narrow SCSI-2 controller supports maximum of seven narrow SCSI devices, three of which may be internal.

Step 4a—Internal Storage

- .. System enclosure supports four devices. One dedicated diskette drive slot, one 5.25-inch slot for SCSI removable media, one 3.5-inch x 1-inch and one 3.5-inch x 1.6-inch slot for SCSI hard disk drives.
- .. Packaged systems include: one 1.44 MB diskette drive, one 1.05 GB narrow SCSI hard drive, and one CD-ROM.
- .. A hard disk drive is mandatory for base systems.
- .. CD-ROM drive is mandatory for Windows NT Base systems; software distribution is only available on CD-ROM.

Removable Media Devices

PBXRZ-AA	1.44 MB 3.5-inch floppy diskette drive
PBXRZ-DA	600 MB 5.25-inch half-height 12x CD-ROM drive (RRD46)
PBXRZ-TA	4/8GB 5.25-inch x 1.6' H SCSI 4mm DAT tape drive (TLZ09)

Internally Supported Hard Drives

- .. 3.5-inch x 1-inch hard disk drives are supported in either hard drive slot.

PBXRZ-EB	1.05 GB 8-bit narrow 5400 RPM 3.5-inch x 1-inch SCSI hard disk drive (RZ26N)
PBXRZ-JC	2.1 GB 8-bit narrow 7200 RPM 3.5-inch x 1-inch SCSI disk drive (RZ28L)
PBXRZ-NB	4.3 GB 8-bit narrow 7200 RPM 3.5 x 1-inch SCSI hard disk drive (RZ29L)

- .. 3.5-inch x 1.6-inch hard disk drive supported in upper hard drive slot only.

PBXRZ-SA	9 GB 8-bit narrow 7200 RPM 3.5 x 1.6-inch SCSI hard disk drive (RZ40)
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Step 4b—External Expansion

- .. Systems support four external devices on an integrated PCI-based Fast Narrow SCSI-2 controller when three devices are installed in the system enclosure.
- .. Seven external narrow SCSI devices are supported on an integrated Fast Narrow SCSI-2 controller if storage devices are not installed in system enclosure.
- .. Select additional PCI-based wide or narrow SCSI-2 controllers if additional external storage is required.
- .. PCI-based SCSI-2 controllers supports seven additional external devices.

Controllers

KZPAA-AA	One-port PCI-based high-performance Fast Narrow Single Ended (FNSE) SCSI-2 controller
BN21H-xx	Connects from KZPAA-AA to BA353 narrow storage enclosure
KZPSA-BB	One-port PCI-based high-performance Fast Wide Differential (FWD) SCSI controller. Supports external disks only.
BN21K-01	Connects from KZPSA to DWZZA-VA in narrow BA353, or DWZZB-VW in wide BA356/BA346 storage enclosures.
KZPSC-AA¹	One-port PCI backplane RAID Fast Wide Single Ended (FWSE) controller; includes StorageWorks RAID Array 230 Subsystem family software and documentation kit.
BN31S-1E	Connects from KZPSC-AA to wide StorageWorks enclosures and wide StorageWorks rackmount shelves.
BN31L-1E	Connects from KZPSC-AA to narrow StorageWorks enclosures and narrow StorageWorks rackmount shelves.
KZPAC-AA¹	One-port PCI backplane RAID (FWSE) controller, UltraWide SCSI-ready, with 4MB EDRAM cache; StorageWORKS RAID Array 230/Plus Subsystem family software and documentation.
BN31S-1E	Connects from KZPAC-AA to wide StorageWorks enclosures and wide StorageWorks rackmount shelves.
KZPSC-BA¹	Three-port PCI backplane RAID (FWSE) controller; includes StorageWorks RAID Array 230 Subsystem family software and documentation kit.
BN31K-0E	SCSI cable/bulkhead assembly kit for KZPSC-BA; required for connection to third port; uses one PCI bulkhead slot.
BN31S-1E	Connects from KZPSC-BA to wide StorageWorks enclosures and wide StorageWorks rackmount shelves.
BN31L-1E	Connects from KZPSC-BA to narrow StorageWorks enclosures and narrow StorageWorks Rackmount shelves.
KZPAC-CA¹	Three-port PCI backplane RAID (FWSE) controller; UltraWide SCSI-ready, with 4 MB EDRAM cache; includes StorageWorks RAID Array 230/Plus Subsystem family software and documentation kit.
KZPAC-CB¹	Same as above with 8 MB of EDRAM cache.
KZPAC-SB	Bulkhead interconnect assembly. Allows the third channel of two KZPAC controllers to be connected to a single PC/EISA bulkhead slot.
BN31S-1E	Connects from KZPAC-CA to wide StorageWorks enclosures and wide StorageWorks Rackmount shelves.
MS100-BB	8 MB EDRAM replacement to cache memory. Upgrades KZPAC-CA to KZPAC-CB.
KZPSC-UB	Battery backup for the KZPAC-xx.

1. Supported on DIGITAL UNIX, OpenVMS, and Windows NT 4.0. Systems running Windows NT 3.51 require upgrade kit, part number QC-00LAC-UC, which includes driver and installation instructions. Driver and instructions are also available at Web Site <http://www.storage.digital.com> under "Technomania" section.

External Tabletop Tape Expansion

- .. Tabletop expansion units include North American power cord; order country-specific power cord for 240 V use.

TLZ09-DB¹	8.0 GB 3.50-inch half-height 4 mm DAT tape drive, includes SCSI cable
TZK11-DA	2.0 GB Quarter-Inch Cartridge (QIC) tabletop tape drive, includes SCSI cable

1. Supported on DIGITAL UNIX, OpenVMS, and Windows NT 4.0. Systems running Windows NT 3.51 require upgrade kit, part number QC-00LAC-UC, which includes driver and installation instructions. Driver and instructions are also available at Web Site <http://www.storage.digital.com> under "Technomania" section.

Step 4b—External Expansion (*continued*)

External Disk Expansion

.. BA356 and BA346 expansion units are supported on Fast Wide SCSI controllers.

StorageWorks Modular Storage Options

BA364-AA/AB	StorageWorks 16-bit office expansion enclosures for narrow/wide devices. Supports a fixed CD-ROM drive plus four 3.5-inch devices, or one 3.5-inch device and one 5.25-inch device.
BA356-KC	StorageWorks 16-bit wide Pedestal expansion unit includes BA356 basic shelf, BA35X universal ac power supply, Pedestal mounting kit, and 120 V power cord. Supports up to seven 3.5-inch wide or narrow drives; narrow drives operate in narrow mode.
BA346-KB	StorageWorks 16-bit wide Pedestal expansion unit includes BA356 basic shelf, BA35X universal ac power supply, Pedestal mounting kit, and 120 V power cord. Supports up to nine devices, two 5.25-inch narrow and seven 3.5-inch wide or narrow drives; narrow drives operate in narrow mode.
DWZZA-VA	Bi-directional SCSI signal converter and bus extender kit. 16 bit Fast Wide Differential SCSI-2 on one end and 8 bit Fast Narrow Single-Ended SCSI-2 on other end.
DWZZB-VW	Bi-directional SCSI signal converter and bus extender kit. 16 bit Fast Wide Differential SCSI-2 on one end and 8 or 16 bit Fast Wide or Fast Narrow Single-Ended SCSI-2 on other end.

Externally supported SCSI devices

RZ26N-VA	1.05 GB 8-bit narrow 5400 RPM 3.5-inch x 1-inch SCSI hard disk drive
DS-RZ28L-VA	2 GB, narrow, SCSI disk drive, SSB
DS-RZ29L-VA	4 GB, narrow, SCSI disk drive, SSB
DS-RZ40-VA	9 GB, narrow, SCSI disk drive, SSB
DS-RZ1BB-VW	2 GB, Wide, UltraSCSI disk drive, SSB
DS-RZ1CB-VW	4 GB, Wide, UltraSCSI disk drive, SSB
DS-RZ1DB-VW	9 GB, Wide, UltraSCSI disk drive, SSB
DS-RRD46-VA	600 MB 5.25-inch half-height compact disk drive

Step 5—Graphics Adapters

Selection of graphics option is mandatory for Windows NT systems

PB2GA-JC	PCI-based 1MB DRAM graphics adapter 1024 x 768
PB2GA-JD	PCI-based 2MB DRAM graphics adapter 1024 x 768

Step 6—Communications and Miscellaneous Adapters

Systems include integrated high-performance Twisted Pair/ThinWire Ethernet

DE450-CA	PCI-based Ethernet, Twisted Pair, ThinWire, Thick wire
DE500-AA	PCI-based Fast Ethernet network interface card (See PCI Option Slot Table.)
DEFPA-AB¹	PCI-based DEC FDDIcontroller, Single Attachment
DEFPA-DB¹	PCI-based DEC FDDIcontroller, Dual Attachments
DEFPA-UB¹	PCI-based DEC FDDI (UTP) controller
DGLPB-AB	PCI-based ATMworks 350 adapter
PBXNP-AA	PCI-based Token Ring adapter, no boot support. DIGITAL UNIX and OpenVMS systems require driver floppy. Not supported on Windows NT.

Step 6—Communications and Miscellaneous Adapters (*continued*)

CXI01-AA	ISA Asynchronous MUX Adapter, 16 lines. Expandable to 64 lines
CXI01-AD	ISA Asynchronous MUX Adapter, 16 lines. Expandable to 224 lines
PBXDF-AA	FAX/DATA Modem 14.4K Data-Fax, North American
PBXDF-BA	FAX/DATA Modem 28.8K Data-Fax, North American

1. Supported as data device only.

Step 7—Software

Windows NT Servers

North American variants of Windows NT Packaged and Base systems include Windows NT Server 4.0 plus 10-client access license, media (CD-ROM) kit North American English.

Note: Selection of language specific Windows NT media kit is mandatory for non North American variants.

Windows NT Server 4.0 plus 10-client access license, media (CD-ROM) kits

QB-23CAA-SB	Windows NT Server license, media kit—North American English
QB-23C8A-SB	Windows NT Server license, media kit—International English
QB-23CPA-SB	Windows NT Server license, media kit—French
QB-23CGA-SB	Windows NT Server license, media kit—German
QB-23CSA-SB	Windows NT Server license, media kit—Spanish
QB-23CUA-SB	Windows NT Server license, media kit—Italian
QB-23CJA-SB	Windows NT Server license, media kit—Japanese
QB-23CMA-SB	Windows NT Server license, media kit—Swedish
QB-23CHA-SB	Windows NT Server license, media kit—Dutch
QB-23CVA-SB	Windows NT Server license, media kit—Portuguese
QB-23C4A-SB	Windows NT Server license, media kit—Korean
QB-23C3A-SB	Windows NT Server license, media kit—Taiwanese
QB-23C2A-SB	Windows NT Server license, media kit—PRC Chinese
QB-23CTA-SB	Windows NT Server license, media kit—Hebrew
QB-23CQA-SB	Windows NT Server license, media kit—Arabic
QB-23C5A-SB	Windows NT Server license, media kit—Thai

Windows NT Server Optional Software

QB-4G45A-AA	Purveyor Web Server Software V1.1 for Process Software Corp.
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DIGITAL UNIX Concurrent Use Licenses

Software Processor Code = E

- .. DIGITAL UNIX Packaged and Base systems require operating system media and documentation for the first system on site.
- .. DIGITAL UNIX Concurrent Use Licenses are not specific to a single system and can be moved from one system to another at user discretion.

QL-MT7AM-3B	DIGITAL UNIX Concurrent Use 1-user license
QL-MT7AM-3C	DIGITAL UNIX Concurrent Use 2-user license
QL-MT7AM-3D	DIGITAL UNIX Concurrent Use 4-user license
QL-MT7AM-3E	DIGITAL UNIX Concurrent Use 8-user license
QL-MT7AM-3F	DIGITAL UNIX Concurrent Use 16-user license
QL-MT7AE-AA	DIGITAL UNIX traditional unlimited user license
QL-MT5AE-AA	DIGITAL UNIX developer's extension license

Step 7—Software (continued)**DIGITAL UNIX Media and Documentation—required for first system on site**

QA-MT4AA-H8	DIGITAL UNIX media and on-line documentation on CD-ROM
QA-MT4AA-GZ	DIGITAL UNIX full hardcopy documentation

DIGITAL UNIX Layered Products CD-ROM

QA-054AA-H8	Layered products media and documentation for DIGITAL UNIX on CD-ROM
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DECnet for DIGITAL UNIX

QL-MTJAE-AA	DECnet/OSI end-system license for DIGITAL UNIX
QL-MTKAE-AA	DECnet/OSI extended function license for DIGITAL UNIX

OpenVMS Concurrent Use Licenses**Software Processor Code = E**

- .. OpenVMS Packaged and Base systems require operating system media and documentation for first system on site.
- .. 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

OpenVMS Media and Documentation—required for first system on site

QA-MT1AA-H8	OpenVMS media and on-line documentation CD-ROM
QA-001AA-GZ	OpenVMS hardcopy documentation

OpenVMS Layered Products CD-ROM

QA-03XAA-H8	Layered products media and documentation for OpenVMS on CD-ROM
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DECnet for OpenVMS

QL-MTGAE-AA	DECnet extended function license for OpenVMS
QL-MTHAE-AA	DECnet end-system to extended function upgrade license for OpenVMS

DSSI Information

EK-410AB-MG	DSSI VMScluster Installation Guide
EK-D4AXP-TS	DSSI VMScluster Troubleshooting Guide

Step 8—Power Cords, Keyboards, and Documentation

Pedestal and Monitor Power Cords

- .. North American variants include BN26J-1K 120 V (North American, Japan) power cord. If another power cord is selected, both power cords ship with system.

BN26J-1K	North American, Japan, 120 V
BN19H-2E	Australia, New Zealand, 2.5 meters in length
BN19C-2E	Central Europe, 2.5 meters in length
BN19A-2E	UK, Ireland, 2.5 meters in length
BN19E-2E	Switzerland, 2.5 meters in length
BN19K-2E	Denmark, 2.5 meters in length
BN19N-2E	Italy, 2.5 meters in length
BN19S-2E	Egypt, India, South Africa, 2.5 meters in length
BN18L-2E	Israel, 2.5 meters in length

Rackmount Power Cords

- .. 120V and 240V 45-meter (15-foot) power cords are included with all systems, variant designates power cord voltage. (See Step 1 in this section.)

Note: AlphaServer 300 Pedestal system power cords are less than 45 meters (15 feet) in length and are not supported in Rackmount cabinet enclosure

Keyboards

- .. North American variants include LK97W-AA keyboard (see Step 1 in this section). For these variants, if an additional keyboard is ordered, both keyboards ship with the system.
- .. LK97W-xx are WIN95 104/105 style keyboards for UNIX and Windows NT systems. LK46W-xx are 108-key VT style keyboards for OpenVMS systems.

LK97W-A2	LK46W-A2	North American, Japan (English)
LK97W-AB	LK46W-AB	Belgium (French)
LK97W-AD	LK46W-AD	Denmark
LK97W-AE	LK46W-AE	United Kingdom (English)
LK97W-AG	LK46W-AG	Germany
LK97W-AI	LK46W-AI	Italy
LK97W-AK	LK46W-AK	Switzerland (Generic)
LK97W-AN	LK46W-AN	Norway
LK97W-AP	LK46W-AP	France
LK97W-AS	LK46W-AS	Spain
LK97W-AV	LK46W-AV	Portugal
	LK46W-AQ	Canada (English)
	LK46W-AC	Canada (French)
	LK46W-AL	Switzerland (German)
	LK46W-AM	Sweden

Mouse and Extension Cable Kit

PBXWS-AA	3-button mouse (included with all systems, order as spare or replacement)
2T-450KM-AA	Extension cable kit for VGA, PC-style keyboard, and mouse; for use with Rackmount systems.

Step 9—Cabinet Enclosure

Select cabinet enclosure for Packaged and Base AlphaServer 300 Rackmount systems, if required.

- .. H9A10 19-inch EIA cabinet enclosure dimensions
 - Outside: 66.9 inches high, 23.62 inches wide, 33.8 inches deep
 - Internal usable rackmountable space: 56 inches high, 19 inches wide, 32.2 inches deep

H9A10-CE	120V Retma Cabinet assembly with dual power controller
H9A10-CJ	240V Retma Cabinet assembly with dual power controller
H9A10-CG	120V Retma Cabinet assembly with dual power controller and front door
H9A10-CK	240V Retma Cabinet assembly with dual power controller and front door
H9A10-AB	Retma Cabinet assembly with no power controller
H9A10-AD	Retma Cabinet assembly with front door, with no power controller

Step 10—Hardware and Software Supplemental Support Services

Hardware—Americas and Asia Pacific only

- .. Systems include three-year hardware warranty, on-site with 5 x 9, 24-hour response time.
- .. Select optional Hardware Supplemental Support Services, if required.

FM-CHXHW-48	Year 2-4, 5 x 9, next day response
FM-CHXHW-60	Year 2-5, 5 x 9, next day response
FM-CH4HR-36	Year 1-3, 5 x 9, 4 hour response
FM-CH4HR-48	Year 1-4, 5 x 9, 4 hour response
FM-CH4HR-60	Year 1-5, 5 x 9, 4 hour response
FM-CH512-36	Year 1-3, 5 x 12, 4 hour response
FM-CH512-48	Year 1-4, 5 x 12, 4 hour response
FM-CH512-60	Year 1-5, 5 x 12, 4 hour response
FM-CH616-36	Year 1-3, 6 x 16, 4 hour response
FM-CH616-48	Year 1-4, 6 x 16, 4 hour response
FM-CH616-60	Year 1-5, 6 x 16, 4 hour response
FM-CH724-36	Year 1-3, 7 x 24, 4 hour response
FM-CH724-48	Year 1-4, 7 x 24, 4 hour response
FM-CH724-60	Year 1-5, 7 x 24, 4 hour response

Software—Americas and Asia Pacific only

FM-WNT03-12	12-month Software Supplemental Support for Windows NT AlphaServer 300 4/266 systems
FM-WNT03-36	36-month Software Supplemental Support for Windows NT AlphaServer 300 4/266 systems
FM-WNT03-60	60-month Software Supplemental Support for Windows NT AlphaServer 300 4/266 systems
FM-M3OSF-12	12-month Software Supplemental Support for DIGITAL UNIX AlphaServer 300 4/266 systems
FM-M3OSF-36	36-month Software Supplemental Support for DIGITAL UNIX AlphaServer 300 4/266 systems
FM-M3OSF-60	60-month Software Supplemental Support for DIGITAL UNIX AlphaServer 300 4/266 systems
FM-M3VMS-12	12-month Software Supplemental Support for OpenVMS AlphaServer 300 4/266 systems
FM-M3VMS-36	36-month Software Supplemental Support for OpenVMS AlphaServer 300 4/266 systems
FM-M3VMS-60	60-month Software Supplemental Support for OpenVMS AlphaServer 300 4/266 systems

Step 10a—Hardware and Software Supplemental Support Services (Europe only)

Europe does not have specific part numbers for Hardware and Software Supplemental Support Services. Prices can be quoted using the Excelerator tool; contact MCS Sales in your country for information on Hardware and Software Supplemental Support Services.

AlphaServer 300

Specifications

PCI	132 MB/s
Fast SCSI-2 bus	10 MB/s transfer rate
Ethernet	10-Mb/s Twisted Pair/ThinWire standard
Power Requirements	
Line voltage	120 V/240 V
Voltage tolerance	90-128 V / 190-256 V
Frequency single phase	50 Hz / 60 Hz
Frequency tolerance	47-63 Hz
Maximum running current	7.0A/3.3A with monitor 5.0A/2.3A without monitor
Maximum power consumption	180 W
Operating Environment	
Operating temperature	10°C to 40°C (50°F to 104°F)
Operating humidity	20% to 80% relative humidity
Maximum wet bulb	40°C (104°F)
Storage temperature	-20°C to 65°C (-4°F to 149°F)
Storage humidity	10% to 90% relative humidity
Maximum wet bulb	65°C (149°F)
Maximum altitude	
Operating	2,438 m (8,000 ft) maximum
Nonoperating	4,876 m (16,000 ft) maximum
Nonoperating shock	30G, 25 ms halfsine
Physical Characteristics	
Pedestal	
Height	10 cm (4 in)
Width	43 cm (17 in)
Depth	41 cm (16 in)
Weight	11-14 kg (25-30 lb)