DEC 3000 Model 300X/300LX AXP Desktop Workstations

Digital's Systems and Options Catalog

DEC 3000 Model 300X/300LX AXP Desktop Workstations

Product Description

The DEC 3000 Model 300X/300LX AXP is a low-cost workstation designed for demanding applications such as 2D CAD, CASE, software development, and technical publishing as well as new and emerging technologies, such as multimedia.

DEC 3000 Model 300X/300LX AXP Base System features include two TURBOchannel slots and integral high-resolution (1280 x 1024) graphics and on-board audio and ISDN. The DEC 3000 Model 300X AXP system uses a 175-MHz CPU with performance of 100 SPECfp92 and 84 SPECint92. The DEC 3000 Model 300LX AXP system uses a 125-MHz CPU with performance of 75 SPECfp92 and 63 SPECint92.

The system enclosure supports up to 256 Mbytes of memory, and includes brackets for two internal devices (3.5-inch hard disk drives or one 3.5-inch hard disk and one diskette drive). Integral SCSI-2 controller supports two internal drives and up to five external devices via a 50-pin high-density SCSI connector. The system enclosure does not support an internal CD-ROM or tape drive. An optional Dual SCSI-2 controller offers one 10-Mbyte/s Fast SCSI-2 channel and one 5-Mbytes/s SCSI-2 channel for external storage expansion.

The open TURBOchannel I/O bus, with over 200 options available from Digital and third-party vendors, provides multiscreen capabilities, additional SCSI, Ethernet, FDDI, 3D graphics, and multimedia support.

The Ethernet connection is a 10BaseT interface. Adapters are available to convert the 10BaseT interface to AUI or ThinWire. A TURBOchannel slot may be used to connect FDDI or AUI.

The DEC 3000 Model 300X/300LX AXP workstation offers performance through design. It uses 64-bit Alpha AXP technology with the DECchip 21064 RISC microprocessor to ensure an unprecedented level of integration and compatibility across the entire platform of Alpha AXP systems.

Step 1—Systems

Select system. 120 V Packaged Systems include power cord and U.S. keyboard; order country-specific power cord and keyboard for all other systems. Select software from Step 11, if necessary.

- Options ordered with Packaged Systems will be shipped outside the system enclosure. No additions or substitutions can be made to a Packaged System.
- Options ordered with Base Systems will be factory installed unless specified as SPARES.

DEC 3000 Model 300X/300LX Desktop Systems include

- DECchip 21064
  - Model 300X: 175-MHz CPU with 256-Kbyte secondary cache
  - Model 300LX: 125-MHz CPU with 256-Kbyte secondary cache
- TURBOchannel I/O interconnect—two slots total
- Integral 8-plane 2D graphics (HX), 1280 x 1024, 72-Hz monitors
- 32 or 64 Mbytes of memory
- 10BaseT (twisted pair) Ethernet port and cable
- Integral SCSI-2 controller with Direct Memory Access
- Systems ordered with RZ25L or RZ26L disk include factory-installed software (FIS)*
- EIA-232 serial line (synchronous/asynchronous) with full modem control
- ISDN port
- Audio in/out, audio headset
- U.S. keyboard, 120 V Packaged Systems only
- Three-button mouse
- 1.8-meter (6-foot) power cord, 120 V Packaged Systems only
- 0.9-meter (3-foot) convenience power cord (monitor to system box)
- 3-meter (10-foot) video cable
- 3-meter (10-foot) keyboard/mouse cable
- DEC OSF/1 AXP two-user base workstation license, DEC Open3D license, DEC PHIGS Runtime license, DECspin audio license, Multimedia Services license, NAS 250, and DECwindows Motif, **or** OpenVMS AXP base license, one-user workstation license, DEC Open3D license, DEC PHIGS Runtime license, NAS 250 with DECwindows Motif

* FIS is not a substitute for software media and documentation; see Step 11.

Order Number	Operating System	Memory	Monitor C = Color	Graphics	TURBO-channel Slots Available	RZ25L = 535 MB RZ26L = 1.05 GB
Model 300X Packaged Systems						
PE321-CD/CE	DEC OSF/1 AXP	32 Mbytes	21-in. C VRC21	HX 8-plane	2	1.05 GB
PE321-DA/DB	DEC OSF/1 AXP	32 Mbytes	21-in. C VRC21	ZLX-E1	1	1.05 GB
PE321-PD/PE	OpenVMS AXP	32 Mbytes	21-in. C VRC21	HX 8-plane	2	1.05 GB
PE321-RA/RB	OpenVMS AXP	32 Mbytes	21-in. C VRC21	ZLX-E1	1	1.05 GB
Model 300X Base Systems (Require country-specific power cord, keyboard, and monitor)						
PE320-CA	DEC OSF/1 AXP	32 Mbytes	Required	HX 8-plane	2	
PE320-DA	DEC OSF/1 AXP	64 Mbytes	Required	HX 8-plane	2	
PE320-PA	OpenVMS AXP	32 Mbytes	Required	HX 8-plane	2	
PE320-RA	OpenVMS AXP	64 Mbytes	Required	HX 8-plane	2	
Model 300LX Packaged Systems						
PE32B-BA/BB	DEC OSF/1 AXP	32 Mbytes	17-in. C VRT17	HX 8-plane	2	535 MB
PE32B-CA/CB	DEC OSF/1 AXP	32 Mbytes	21-in. C VRC21	HX 8-plane	2	1.05 GB
PE32B-NA/NB	OpenVMS AXP	32 Mbytes	17-in. C VRT17	HX 8-plane	2	535 MB
PE32B-PA/PB	OpenVMS AXP	32 Mbytes	21-in. C VRC21	HX 8-plane	2	1.05 GB

Note: xD, xA = 120/240 V Northern Hemisphere, xE, xB = 240 V Southern Hemisphere

Step 1a—AdvantageCluster Compute Server (ACCS) Model 1000

The AdvantageCluster Compute Server Model 1000 is an entry level parallel compute server with a 4-node DEC 3000 Model 300X AXP cluster using Ethernet interconnect and parallel run-time environment.

For more information on AdvantageClusters, see Chapter 6, *High Performance and High Availability Products*.

ACCS Model 1000 includes

- Four Rackmounted DEC 3000 Model 300X AXP systems
- 32 Mbytes of memory per system
- DECserver 90M
- Ethernet network interconnect
- 42-inch cabinet

CT-FR330-04	ACCS Model 1000

For more information on AdvantageClusters, see Chapter 6, *High Performance and High Availability Products*.

Step 2—Monitors (Required for Model 300X Base Systems)

Integral HX graphics support 72-Hz monitors only.

VR319-DA/D4	19-inch monochrome, 1280 x 1024, 72-Hz refresh rate
VRT17-HA/H4	17-inch color, MPR2, LE, Digital Control, 1280 x 1024, 72-Hz refresh rate
VRC21-HA/H4	21-inch Diamondtron color, MPR2, LE, Digital Control, 1280 x 1024 resolution, 72 Hz refresh rate

Step 3—Memory

Systems include 32 or 64 Mbytes of memory. Systems with 32 Mbytes of memory support two additional memory module sets. Systems with 64 Mbytes of memory support three additional memory module sets.

Maximum system memory of 256 Mbytes is achieved by selecting a 64-Mbyte Base System and adding three additional MS16-DA memory module sets.

MS16-BA	16-Mbyte module sets (2 x 8-Mbyte, 4-Mbit, 70-ns DRAM module)
MS16-DA	64-Mbyte module sets (2 x 32-Mbyte, 4-Mbit, 70-ns DRAM module)

Step 4—Storage

Select storage devices as required.

- An RZ25L, RZ26L, or RZ28 disk drive is recommended as a system or data/swap device.
- DEC OSF/1 AXP systems require one system disk; OpenVMS AXP systems can be networked configurations with supported page/swap functions.
- Recommended minimum configurations for standalone systems are: one RZ26L = 1.05 Gbyte or two RZ25Ls = 1.07 Gbyte.
- Software media is only available on CD-ROM. Media and documentation is recommended for first system on site.
- SCSI-2 controller supports two internal drives and a maximum of five external SCSI drives; an optional Dual-SCSI TURBOchannel option card supports maximum of 14 additional external SCSI devices.

Step 4a—Internal Storage

- System supports two internal storage devices.
- Slot 1 supports one removable media device (RX26) or one hard disk drive (RZ25L, RZ26L, RZ28).
- Slot 2 supports one hard disk drive (RZ25L, RZ26L, RZ28).

Note: The DEC 3000 Model 300X/300LX AXP does not support internal CD-ROM or tape drives; see Step 4b for external CD-ROM and tape options.

Removable Media Device

RX26-FB	2.8-Mbyte 3.5-inch diskette drive

Step 4a—Internal Storage *(continued)*

Hard Disk Drives

RZ25L-EP*	535-Mbyte 3.5-inch half-height disk drive
RZ26L-EP*	1.05-Gbyte 3.5-inch half-height disk drive
RZ28-EP*	2.1-Gbyte 3.5-inch half-height disk drive

* Disks ordered with Base Systems include factory-installed software (FIS).

Step 4b—External Storage

Systems support maximum of five external devices on SCSI-2 controller; select Dual-SCSI-2 TURBOchannel option if more are required.

Dual-SCSI TURBOchannel Option Card

PMAZC-AA	Dual-SCSI-2 option card with one 10-Mbyte/s Fast SCSI-2 channel and one 5-Mbytes/s SCSI-2 channel (supports 14 additional external SCSI devices); requires one TURBOchannel slot

SCSI cabling recommendations for 10-Mbyte/second Fast SCSI-2 and 5-Mbyte/second SCSI-2:

- Maximum cable length for 10-Mbyte/second Fast SCSI-2 = 3 meters (10 feet)
- Maximum cable length for 5-Mbyte/second, SCSI-2 = 4 meters (13 feet)
- Include internal cabling in expansion box when calculating maximum bus length. Digital expansion boxes include approximately 1 meter of internal SCSI cable. **Note:** Internal SCSI cable calculations do not need to be considered in these calculations.
- Devices that operate in Fast SCSI-2 mode include: RZ25L, RZ26L, RZ28.

Single Drive Expansion

RRD43-FA	600-Mbyte 5.25-inch half-height dual-speed compact disk drive, requires SCSI cable (BC09D-06)
TKZ60-BA	3480/TA90-compatible cartridge tape drive
TKZ09-BA	5.0-Gbyte 5.25-inch 8-mm cartridge tape drive
TLZ07-DA	8.0-Gbyte 3.5-inch half-height 4-mm DAT drive, requires SCSI cable (BC09D-06)
TSZ07-CA	1600/6250-bit/inch 9-track reel-to-reel tape drive
TZK11-DA	2.0-Gbyte quarter-inch cartridge QIC tape drive
TZ85-TA	2.6-Gbyte 5.25-inch cartridge tape subsystem
TZ86-TA	6.0-Gbyte 5.25-inch cartridge tape subsystem; requires SCSI cable

Storageworks Desktop Expansion Box (BA353)

BA353 supports three 3.5-inch half-height or two 3.5-inch half-height and one 5.25-inch half-height drive. 120 V expansion boxes include power cord; order power cord for 240 V variants. Order SCSI cable (BN21H-xx) separately.

BA353-AA	StorageWorks desktop expansion box
BA353-AE	StorageWorks desktop expansion box with one RRD43 5.25-inch half-height dual-speed CD-ROM drive
BA353-AH	StorageWorks desktop expansion box with one TZ30 5.25-inch half-height tape drive

SCSI devices may be purchased separately and are customer installable. The following SCSI devices are supported in BA353 desktop expansion box.

RZ25L-VA	535-Mbyte 3.5-inch half-height disk drive
RZ26L-VA	1.0-Gbyte 3.5-inch half-height disk drive
RZ28-VA	2.1-Gbyte 3.5-inch half-height disk drive
TLZ06-VA	4.0-Gbyte 3.5-inch half-height 4-mm DAT drive

Refer to Chapter 8, *Storage Devices*, for additional external storage; StorageWorks deskside expansion box (BA353) configurations.

Step 4c—TcE Expansion Box

TURBOchannel Extender (TcE) box supports TURBOchannel extender and three half-height storage devices (one removable media device and two hard disk drives). TcE includes base connector card and cable, SCSI cable, and 120 V power cord.

- TcE supports one dual-or triple-width TURBOchannel graphics card, leaving second slot in system available for other TURBOchannel options.
- TcE supports one TURBOchannel option card.
- TcE can be daisychained with other external storage devices but must be last device in chain.
- TcE connected to 240 V systems require country-specific power cord.
- SCSI devices may be purchased separately and are customer installable.

PMCTE-AA	TcE, no options, no disks

Step 5—TURBOchannel Graphics Options

To configure a 3D graphics system, select a TURBOchannel graphics option.

- One 3D graphics option is supported per system.
- Monitor cables included with each graphics option.
- HX+ graphics cards in TURBOchannel Extender (TcE) require one system TURBOchannel slot. TcE supports one dual- or triple-width TURBOchannel graphics card, leaving second slot in system available for other TURBOchannel options. See Step 4c for additional information.

Order Number Factory/Field Installed	Graphics Options	TURBOchannel Slots Required	Compatible Monitors	Hz
PMAGD-AA	ZLX-E1 8-plane 2D/3D color graphics accelerator, 1280 x 1024, 72 Hz, 2-Mpixels graphics memory	1	17-in. C VRT17-HA/H4 21-in. C VRC21-HA/H4	72 72
PMAGD-BA*	ZLX-E2 24-plane 2D/3D color graphics accelerator, 1280 x 1024, 72 Hz, 2-Mpixels graphics memory	1		
PMAGD-CA*	ZLX-E3 24-plane 2D/3D color graphics accelerator, 24-bit Z-Buffer, 1280 x 1024, 72 Hz, 4-Mpixels graphics memory	1		
PMAGC-AA	ZLX-M1 24-plane, 3D graphics accelerator, Double buffered Z-Buffer, 1 rendering processor, 4-Mpixels graphics memory	2		
PMAGC-AT	ZLX-M1 24-plane 3D color graphics accelerator installed in TcE Expansion Box	1		
PMAGC-BA	ZLX-M2 24-plane 3D graphics accelerator, Double-buffered Z-Buffer, 2 rendering processors, 4-Mpixels graphics memory	3		
PMAGC-BT	ZLX-M2 24-plane 3D color graphics accelerator installed in TcE Expansion Box	1		
PMAGC-DA†	ZLX-L1 24-plane 3D TURBOchannel color graphics accelerator, 24-bit image, 24-bit double buffer, 4-Mpixels graphics memory	2		

* Supported on systems running DEC Open3D V2.4 or later.
† DEC OSF/1 AXP systems only.

Step 5b—Multi-Screen TURBOchannel Graphics Options

To build a multi-screen system, add TURBOchannel graphics cards and select compatible monitors. Each additional monitor requires a country-specific power cord from Step 12.

- Add graphics card for each additional monitor provided there are free TURBOchannel slots.
  - Systems support two HX+ option cards plus integral HX graphics.
- Multi-screen systems expand monitor area. They are single-user systems, with one keyboard and one mouse.
- Monitor cables included with each graphics option.

Order Number Factory/Field Installed	Graphics Options	TURBOchannel Slots Required	Compatible Monitors	Hz
PMAGD-AA	HX+ ZLX-E1 8-plane 2D/3D color graphics accelerator, 1280 x 1024, 72 Hz, 2-Mpixels graphics memory		17-in. C VRT17-HA/H4 21-in. C VRC21-HA/H4	72 72
PMAGD-BA*	HX+ ZLX-E2 24-plane 2D/3D color graphics accelerator, 1280 x 1024, 72 Hz, 2-Mpixels graphics memory	1		
PMAGD-CA*	HX+ ZLX-E3 24-plane, 2D/3D color graphics accelerator, 24-bit Z-Buffer, 1280 x 1024, 72 Hz, 4-Mpixels graphics memory	1		

***** Supported on systems running DEC Open3D V2.4 or later.

Step 6—TURBOchannel Multimedia Option (DEC OSF/1 AXP Systems Only) (Field Installable)

Systems running DEC OSF/1 AXP include license for Multimedia Services. See Step 11 for ordering information on Multimedia Services Runtime documentation kit and Multimedia Services development kit license and documentation.

Sound and Motion (J300)—Requires one TURBOchannel slot

- Audio/video single-slot TURBOchannel option that works with ANY graphics option
- Features include:
  - NTSC, PAL, SECAM full motion video input
  - NTSC, PAL video output
  - JPEG compression and decompression
- 4–48 kHz audio (including CD-quality)
- Supported by Multimedia Services for DEC OSF/1 AXP and Multimedia Services development kit for DEC OSF/1 AXP

Note: Simultaneous audio and video from the J300 is not supported. The J300 supports video with base system audio or audio only.

AV300-AA*	Sound and motion (J300)

* Supported on DEC OSF/1 AXP systems only.

Step 7—TURBOchannel Options

Each option requires one TURBOchannel slot.

DEFTA-FA	DEC FDDIcontroller/TURBOchannel (fiber optic)
PMAD-AA/AB	AUI (thick wire) Ethernet TURBOchannel option card
DEFTA-AA	DEC FDDIcontroller/TURBOchannel; TURBOchannel-to-FDDI adapter SAS (single attachment station), fiber (DEC OSF/1 AXP systems only)
DEFTA-DA	DEC FDDIcontroller/TURBOchannel; TURBOchannel-to-FDDI adapter DAS (dual attachment station), fiber (DEC OSF/1 AXP systems only)
DEFTA-UA	DEC FDDIcontroller/TURBOchannel; TURBOchannel-to-FDDI adapter SAS (single attachment station), copper (DEC OSF/1 AXP systems only)
DJ-30APS-AA	Prestoserve option (TURBOchannel-based NVRAM card, documentation license, DEC OSF/1 AXP systems only)

Step 8—Networking Adapters and Miscellaneous Cables (Field Installable)

System module includes 10BaseT (twisted pair) connection.

DETTR-AA/AB	10BaseT to 10Base2 (UTP to ThinWire) single port adapter/repeater, 120/240 V
DETTR-BA/BB	10BaseT to AUI (UTP to thick wire) single port adapter/repeater, 120/240 V (120 V DETTR options include U.S. power cord; 240 V options require country-specific power cord; see Step 12.)

Note: Multi-port repeaters are supported (DETMR-xx and DEMON-xx). See Chapter 7, *Networks, Communications, and Cables*, for more information.

Cables

BN26K-xx	Twisted pair cable (included with system)
BC09D-xx	SCSI cable, small connector to large connector (for tabletop CD-ROM and tape drives)
BN21H-xx	SCSI cable, small connector to small connector (system box and TURBOchannel Dual-SCSI-2 adapter to BA353 modular storage expansion)

Step 9—Optional Input/Output Devices

Tablet can be used in place of the mouse. Audio headset (input/output capability) uses the MJ audio connector.

VSXXX-AB*	28- x 28-cm (11-x 11-inch) tablet with a two-button stylus and a four-button puck
VSXXX-JA	Audio headset

* Not supported on multi-screen systems.

Lighted Programmable Function Keyboard (LPFK) and Programmable Function Dials (PFD) can be ordered as a pair or separately. LPFK and PFD packages listed below include a Peripheral Control Module (PCM) which provides multiplexing of both LPFK and PFD into a single EIA-232 port. Each package includes a power supply, cables, and user documentation.

VSX10-AA/A3†	Combination Lighted Programmable Function Keyboard (LPFK)and Programmable Function Dials (PFD) package, 120/240 V
VSX20-AA/A3†	Lighted Programmable Function Keyboard (LPFK) package, 120/240V
VSX30-AA/A3†	Programmable Function Dials (PFD) package, 120/240 V

† Supported on 3D graphics systems only

Step 10—Printers

Refer to Chapter 9, *Terminals, Scanners, Printers*, for ordering information. Model 300X/300LX has one 25-pin D-subconnector on rear of system enclosure. Port may be used as a printer port or an alternate console port.

Step 11—Software

Select user licenses and additional software as required. Media and documentation are recommended for the first system on site.

Software Processor Code = E

DEC OSF/1 AXP User Licenses

DEC OSF/1 AXP Distributed Interactive User Licenses are **not** specific to a single system and can be moved from one system to another at user discretion.

QL-MT7A9-BB	DEC OSF/1 Distributed Interactive 1-user license
QL-MT7A9-BC	DEC OSF/1 Distributed Interactive 2-user license
QL-MT7A9-BD	DEC OSF/1 Distributed Interactive 4-user license
QL-MT7A9-BE	DEC OSF/1 Distributed Interactive 8-user license
QL-MT7A9-BF	DEC OSF/1 Distributed Interactive 16-user license
QL-MT7A9-BG	DEC OSF/1 Distributed Interactive 32-user license

Step 11—Software *(continued)*

QL-MT7A9-BH	DEC OSF/1 Distributed Interactive 64-user license
QL-MT7AA-BR	DEC OSF/1 Distributed Interactive 128-user license
QL-MT7AB-BR	DEC OSF/1 Distributed Interactive 256-user license
QL-MT5AE-AA	DEC OSF/1 AXP C developer's extension license

DEC OSF/1 AXP Media and Documentation

QA-MT4AA-H8	DEC OSF/1 AXP media and documentation (base, developer, server) on CD-ROM
QA-MT4AA-GZ	DEC OSF/1 AXP full hardcopy documentation
QA-MT5AA-GZ	DEC OSF/1 AXP developer’s extension hardcopy documentation

DEC OSF/1 AXP Layered Products CD-ROM

QA-054AA-H8	Layered products media and documentation for DEC OSF/1 AXP on CD-ROM

OpenVMS AXP Distributed Interactive User Licenses

OpenVMS AXP Distributed Interactive User Licenses are **not** specific to a single system and can be moved between systems at user discretion. OpenVMS AXP Distributed Interactive User Licenses can also be shared across a OpenVMS Cluster.

Note: OpenVMS AXP Distributed Interactive User Licenses are architecture specific, and **cannot** be shared across a mixed OpenVMS Cluster (OpenVMS AXP and OpenVMS VAX systems).

QL-MT3A9-BB	OpenVMS AXP Distributed Interactive 1-user license
QL-MT3A9-BC	OpenVMS AXP Distributed Interactive 2-user license
QL-MT3A9-BD	OpenVMS AXP Distributed Interactive 4-user license
QL-MT3A9-BE	OpenVMS AXP Distributed Interactive 8-user license
QL-MT3A9-BF	OpenVMS AXP Distributed Interactive 16-user license
QL-MT3A9-BG	OpenVMS AXP Distributed Interactive 32-user license
QL-MT3A9-BH	OpenVMS AXP Distributed Interactive 64-user license
QL-MT3AA-BR	OpenVMS AXP Distributed Interactive 128-user license
QL-MT3AB-BR	OpenVMS AXP Distributed Interactive 256-user license

OpenVMS AXP Media and Documentation

QA-MT1AA-H8	OpenVMS AXP media and documentation on CD-ROM
QA-MT1AB-GZ	OpenVMS AXP base hardcopy documentation
QA-MT1AA-GZ	OpenVMS AXP extended hardcopy documentation

OpenVMS AXP Layered Products CD-ROM

QA-03XAA-H8	Layered products media and documentation for OpenVMS AXP

NAS 250 Advance Kit

NAS 250 advance kit is included with system. Media available on layered products CD-ROM.

DEC PHIGS Runtime and DEC Open3D Licenses

DEC PHIGS Runtime License and DEC Open3D License are included with all systems. Media available on layered software CD-ROM.

QL-0KBAA-2B	OpenVMS DEC PHIGS Development license
QL-0A8AM-2B	DEC OSF/1 AXP DEC PHIGS Development license

Step 11—Software *(continued)*

Multimedia Services for DEC OSF/1 AXP

Model 300 workstations running DEC OSF/1 AXP include license for Multimedia Services for DEC OSF/1 AXP. Media available on layered products CD-ROM. Order Multimedia Services Runtime documentation kit and Multimedia Services Development kit license and documentation separately.

QA-20YAA-GZ	Multimedia Services Runtime documentation
QL-20ZAE-AA	Multimedia Services Development kit license
QA-20ZAA-GZ	Multimedia Services Development kit documentation

DEC SoftPC

DEC SoftPC, an optional layered product, allows a DEC 3000 AXP workstation running DEC OSF/1 AXP to run MS-DOS programs with no added hardware. DEC SoftPC with an installed Windows 3.1 kit also runs Windows applications. Media available on layered products CD-ROM.

QL-0HSAM-3B	DEC SoftPC license for DEC OSF/1 AXP

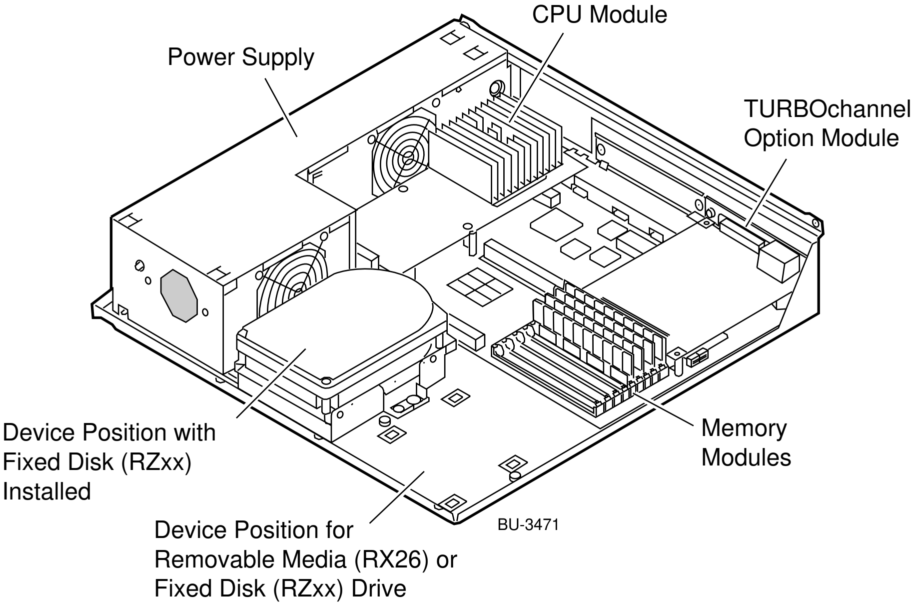
Step 12—Power Cords and Keyboards (Not Required for 120 V Packaged Systems)

Power Cord	Standard Keyboard	UNIX Keyboard	Country	Language
BN26J-1K	**LK401-AA**	**LK421-AA**	U.S.	English
BN19C-2E	**LK401-AG**	**LK421-AA**	Austria	German/Austrian
BN19C-2E	**LK401-AB**	**LK421-AA**	Belgium	Flemish
BN19K-2E	**LK401-AD**	**LK421-AA**	Denmark	Danish
BN19C-2E	**LK401-AF**	**LK421-AA**	Finland	Suomi
BN19C-2E	**LK401-AP**	**LK421-AA**	France	French
BN19C-2E	**LK401-AH**	**LK421-AA**	Holland	Dutch
BN19U-2E	**LK401-AT**	**LK421-AA**	Israel	Hebrew
BN19Z-2E	**LK401-AI**	**LK421-AA**	Italy	Italian
BN26J-1K	**LK401-AJ**	**LK421-AJ**	Japan	Katakana
BN19C-2E	**LK401-AN**	**LK421-AA**	Norway	Norwegian
BN19C-2E	**LK401-AV**	**LK421-AA**	Portugal	Portuguese
BN19C-2E	**LK401-AS**	**LK421-AA**	Spain	Spanish
BN19C-2E	**LK401-AM**	**LK421-AA**	Sweden	Swedish
BN19E-2E	**LK401-AK**	**LK421-AA**	Switzerland	French
BN19E-2E	**LK401-AL**	**LK421-AA**	Switzerland	German
BN19A-2E	**LK401-AA**	**LK421-AA**	U.K./Ireland	English
BN19H-2E	**LK401-AA**	**LK421-AA**	Australia/N.Z.	English
BN26J-1K	**LK401-AQ**	**LK421-AA**	Canada	English
BN19W-1K	**LK401-AC**	**LK421-AA**	Canada	French
BN19S-2E	**LK401-AC**	**LK421-AA**	India	English

Step 13—Environmental Power Products

Select environmental power products if required. Refer to *Chapter 10, Environmental Products*, and to *Digital's Environmental Power Products Catalog*.

DEC 3000 Model 300X/300LX AXP Desktop Workstation Diagram



DEC 3000 Model 300X/300LX AXP Desktop Workstation Specifications

Specifications

CPU	DECchip 21064 RISC microprocessor
Clock speed	Model 300X: 5.7 ns (175 MHz) Model 300LX: 8.0 ns (125 MHz)
SPECint92/SPECfp 92	Model 300X: 84/100 Model 300LX: 63/75
TURBOchannel	50-Mbyte/s burst speed
SCSI-2 bus	5-Mbyte/s transfer rate
Ethernet	10-Mbit/s standard
FDDI	100 Mbits
Audio	8-bit in/out, speaker, headset
ISDN	Basic rate, S and T reference points
Serial port	19.2K bits/s synchronous/asynchronous
Power Requirements	
Voltage/Phase/Watts	120/240 V, single phase, 260 ac Watts
Operating Environment	
Temperature	10° – 40° C (50° – 104° F) [DEC class B]
Temperature change rate (maximum)	11° C/hour (20° F/hour)
Relative humidity Maximum wet bulb Minimum dew point	 28° C (82° F) 2° C (36° F)
Maximum operating altitude	2000 m (6562 ft) @ 36° C (97° F)
Physical Characteristics	
Height	9.6 cm (3.8 in.) (including feet)
Width	40.6 cm (16.0 in.)
Depth	43.9 (17.3 in.)
Weight	8.2 kg (18 lb) (diskless)
Input Devices	
Keyboard LK401	105 sculptured keys, 20 special-function keys
Mouse output	Three buttons, 200 pulses per inch
Graphics tablet	27.9 x 27.9 cm (11 x 11-inches)
Lighted Programmable	32 individually programmable
Function Keyboard (LPFK)	Function keys in 4-6-6-6-6-4 array
Programmable Function Dials (PFD)	Eight individually programmable function dials with 360-degree rotation (256-bit resolution) arranged in two vertical rows of four dials