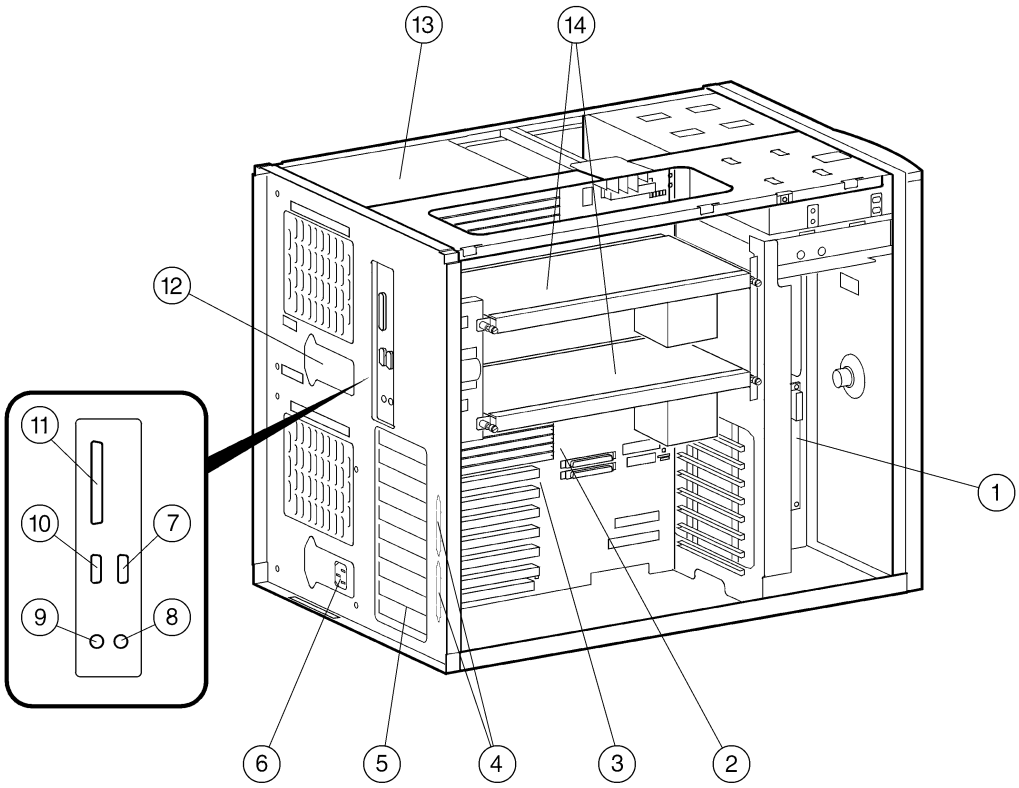
Overview

AT A GLANCE

Systems include:

- Alpha microprocessor 21264 500-MHz CPU with 4-MB ECC onboard cache
- Pedestal enclosure
- Five 64-bit PCI slots and one 64-bit PCI/ISA combination slot
- 256-MB or 512-MB memory (16 DIMM memory slots)
- 1.44-MB diskette drive
- 600-MB 32X CD-ROM drive
- Removable media slot
- Seven StorageWorks hard drive slots
- Two serial ports, support full-duplex asynchronous modem control
- Bi-directional enhanced parallel port
- PS/2 style keyboard port and mouse port
- 3-button mouse
- U.S./English keyboard and 120V power cord with North American orders
- 675-Watt self-switching (120/240V, 60/50Hz) power supply
- Protected by Compaq Services, including three-year, on-site with 5 x 9, 24-hour response time



1. Server feature card
2. Memory DIMMs
3. PCI slots
4. SCSI breakouts
5. PCI/ISA bulkhead port
6. Power inlet and power supply
7. Serial port (COM1)
8. Mouse Port
9. Keyboard port
10. Serial port (COM2)
11. Parallel port
12. Optional power inlet
13. Fan or optional power supply
14. CPU modules

Standard Features

Processor

Alpha 21264 6/500 MHz processor

Cache Memory

4-MB ECC onboard cache

Upgradability

Standard	1 CPU
Maximum	2 CPUs

Memory

Standard	256 MB or 512 MB
Maximum	2 GB

Network Controller

Choice of Ethernet controllers

Expansion

Total expansion slots	6
PCI I/O Slots	5
PCI/ISA	1
Total memory slots	16 DIMM slots support 4 memory options
Total storage slots	10
Diskette drive slot	1
CD-ROM drive slot	1
Removable media slot	1
Hard drive slots	7

Storage

CD-ROM	5.25″ half height CD-ROM drive
Hard Drives	Choice of 9.1-GB, 18.2-GB UltraSCSI disk drives
Diskette Drive	1.44-MB diskette drive

Storage Adapter

Choice of UltraSCSI adapters

Power Supply

675W self-switching (120/240V, 60/50 Hz) power supply for normal operation; system supports additional power supply to support second CPU

Service and Support

Protected by Compaq Services, including a three-year, on-site hardware warranty with 5x9, 24-hour response. Training, consulting, network integration, comprehensive system maintenance and guaranteed uptime services are also available for customers requiring higher levels of service and support.

Systems/Options

Step 1 – Select system

DS20 systems require the **mandatory** selection of the following items:

- Mandatory selection of system disk drive
- Mandatory selection of two SCSI ports
- Mandatory selection of Ethernet adapter
- Country-specific keyboard and power cord for all non-North American orders
- Graphics adapter and monitor recommended for all systems

CPU	Memory	PCI Slots	Hard Drive	Network Adapter	2 SCSI Ports	Order No.
500 MHz	256 MB	6	Mandatory	Mandatory	Mandatory	DJ-55NJA-DA
500 MHz	512 MB	6	Mandatory	Mandatory	Mandatory	DJ-55NJA-EA

Step 2 – Mandatory Options

Step 2a – System Disk Drive

- Selection of disk drive is mandatory

18.2-GB 10,000 rpm UltraSCSI drive	DS-RZ1ED-VW
18.2-GB 7200 rpm UltraSCSI drive	DS-RZ1EA-VW
9.1-GB 10,000 rpm UltraSCSI drive	DS-RZ1DD-VW
9.1-GB 7200 rpm UltraSCSI drive	DS-RZ1DA-VW

Step 2b – SCSI Ports

- Two SCSI ports are mandatory to support internal storage.
- Internal removable media devices are supported on KZPCM-DA and KZPBA-CA adapters only.
- Internal StorageWorks 7-disk shelf requires one SCSI port when configured in single-bus mode; to configure disk shelf in split-bus mode, one additional SCSI port is required.
- System includes SCSI cable(s) to connect SCSI adapters/controllers to internal storage.
- The two SCSI ports requirement can be fulfilled by ordering: one KZPCM-DA 2-port adapter, or two KZPBA-CA 1-port adapters

PCI 2-port UltraSCSI single-ended adapter and 10/100 Mb Ethernet combo adapter	KZPCM-DA
PCI 1-port UltraSCSI single-ended adapter	KZPBA-CA

SCSI Accessories

SCSI Hub 3.5″ SBB (three ports)	DS-DWZZH-03
SCSI Hub 3.5″ SBB (five ports)	DS-DWZZH-05
SCSI Hub 3.5″ SBB (21 ports)	DS-DWZZH-21

Step 2c – Ethernet Adapters

- Selection of Ethernet adapter is mandatory

Note: Ethernet adapter is not required if KZPCM is selected as the SCSI adapter.

PCI 10/100-Mb 1-port Fast Ethernet controller (Twisted Pair); maximum two per system	DE500-BA
PCI 10/100-Mb 4-port Fast Ethernet controller (Twisted Pair); maximum one per system	DE504-BA
Cable for 10BaseT Twisted Pair connection	BN25G-xx

Step 3 – Additional CPU Modules – Optional

- System supports one additional CPU module

SMP upgrade with one 6/500 CPU; Linux SMP support must be obtained separately – Linux Kernel 2.2.x required	3X-KN310-AD

Options

Step 4 – Memory – Optional

- System supports four memory kits (each kit includes four industry-standard ECC DIMMs) – one kit included
- Maximum 2-GB memory per system

1-GB (4 x 256-MB DIMMs) memory kit	MS340-EA
512-MB (4 x 128-MB DIMMs) memory kit	MS340-DA
256-MB (4 x 64-MB DIMMs) memory kit	MS340-CA

Step 5 – Internal Storage – Optional

Pedestal enclosure supports 10 storage devices:

- One dedicated 1.44-MB diskette drive slot (included)
- Two 5.25″ removable media slots (600-MB 32X CD-ROM drive included in one slot)
- Seven 3.5″ internal hard disk drive slots

Step 5a – Internal Storage Disk Drives

- Selection of one system disk drive is mandatory; six additional hard disk drives are supported in internal storage disk shelf.
- Internal storage disk shelf is configured in single-bus mode; to configure internal storage disk shelf in split-bus mode, one additional SCSI port and one H8253-AA UltraSCSI bus splitter kit are required.

18.2-GB 7200 rpm UltraSCSI drive	DS-RZ1EA-VW
18.2-GB 10,000 rpm UltraSCSI drive	DS-RZ1EF-VW
9.1-GB 7200 rpm UltraSCSI drive	DS-RZ1DA-VW
9.1-GB 10,000 rpm UltraSCSI drive	DS-RZ1DF-VW

Step 5b – Internal UltraSCSI Cable Kit

UltraSCSI bus splitter kit with SCSI bus repeater card, two data cables, Y power cable harness, SCSI active terminator assembly, and installation guide; required to configure internal storage shelf in split-bus mode	H8253-AA

Step 5c – Internal Removable Media Devices

- Systems include CD-ROM drive in 5.25″ half-height removable media slot
- Systems support one additional 5.25″ half-height removable media device

600-MB 5.25″ 32X CD-ROM drive (RRD47), top gun blue	RRD47-VD

Step 6 – Storage Adapters/Controllers – Optional

UltraSCSI Adapters

PCI 2-port UltraSCSI single-ended and 10/100 Mb Ethernet combo adapter (uses one PCI slot) includes internal 68-pin and 50-pin HD connectors and two external 68-pin VHDCI SCSI connectors, requires BN37A cable (0.3- to 20-m) to connect to UltraSCSI shelf; maximum four per system	KZPCM-DA
VHDCI male-to-VHDCI male UltraSCSI cable; required for each external UltraSCSI shelf attached to KZPCM; xx = 0C [0.3m], 0E [0.5m], 01 [1.0m], 1E [1.5m], 02 [2.0m], 2E [2.5m], 03, 05, 10, 15, 20, 25 m	BN37A-xx
PCI 1-port UltraSCSI single-ended adapter (uses one PCI slot); includes internal 68-pin and 50-pin HD connectors and external 68-pin HD connector, requires BN38C cable (2 to 20 m) to connect to UltraSCSI shelf, maximum four per system.	KZPBA-CA
PCI 1-port UltraSCSI differential adapter, (uses one PCI slot); includes external 68-pin HD connector, requires BN38C cable (2 to 25 m) to connect to differential UltraSCSI shelf or external RAID array controller, maximum four per system.	KZPBA-CB
68-pin HD male-to-VHDCI male UltraSCSI cable; xx = 02, 03, 05, 10, 20, 25 m	BN38C-xx

Options

Step 7 – Storage Devices – Optional

UltraSCSI Configuration Rules

- UltraSCSI configurations require UltraSCSI components (controllers, adapters, shelves, disks, and cables).
- UltraSCSI adapters and RAID controllers support UltraSCSI disks at UltraSCSI speeds in UltraSCSI top gun blue shelves (DS-BA356-xx).
- Fast10 BA356-xx SCSI shelves cannot be retrofitted; replace Fast10 SCSI shelf with DS-BA356-xx shelf when adding an UltraSCSI disk and when connecting to UltraSCSI adapter.
- UltraSCSI and Fast10 drives can be mixed in DS-BA356 top gun blue UltraSCSI shelf; UltraSCSI adapter negotiates maximum transfer speed of drives.

UltraSCSI StorageWorks Shelves

- UltraSCSI top gun blue shelf provides support for UltraSCSI disk drives. The shelf is available in single-bus or split-bus configurations, and the shelf includes personality module and 180W power supply.
- UltraSCSI shelf supports seven 3.5″ hard disk drives, or one 5.25″ device and four 3.5″ hard disk drives, or two 5.25″devices and one 3.5″ hard disk drive.
- Installation of redundant power supply reduces number of 3.5″ drive slots by one.

UltraSCSI Pedestal Enclosure

UltraSCSI single-ended pedestal, single-bus personality module, 180W power supply, U.S. power cord	DS-BA356-KF
UltraSCSI single-ended pedestal, split-bus personality module, 180W power supply, U.S. power cord	DS-BA356-KG
UltraSCSI pedestal, differential personality module, 180W power supply, U.S. power cord (non-U.S./Canada require country-specific power cords)	DS-BA356-KH
180W power supply, requires country-specific power cord	DS-BA35X-HH

Step 8 – Graphics Adapters – Recommended

ELSA Gloria synergy graphics with 8-MB SGRAM 1600 x 1200, 2D/3D graphic accelerator; maximum one per system	SN-PBXGK-BB

Step 9 –Monitors –Recommended

- Graphics monitors other than those listed below can be used if compatible with SVGA graphics that are ordered with a system.
- Selection of video extension cable and country-specific power cord is mandatory for all monitors.

15″ (13.8″ viewable image size) Corporate Series auto-scan color monitor, flat square Invar CRT, 0.28 mm dot pitch, VGA to 1024 x 768 at 85 Hz, TCO 95, MPRII, Energy Star, attached 1.8-m video cable; requires video extension cable and country-specific power cord; Northern Hemisphere without power cord	3R-VRQV5-24
Same as above except Southern Hemisphere without power cord	3R-VRQV5-11
17″ (16″ viewable image size) professional series auto-scanning color monitor, Trinitron CRT, 0.25 mm aperture grill pitch, VGA to 1280 x 1024 at 75 Hz, TCO 95, MPR-II, Energy Star, attached 1.8-m video cable; requires video extension cable and country-specific power cord; Northern Hemisphere without power cord	3R-VRQP7-24
Same as above except Southern Hemisphere without power cord	3R-VRQP7-23
21″ (19.6″ viewable image size) auto-scanning color monitor, Trinitron CRT, 0.25 mm aperture grill pitch, VGA to 1600 x 1200 at 75 Hz NI, TCO 95, Energy Star, includes 1.8-m video cable; requires video extension cable and country-specific power cord; Northern Hemisphere without power cord	3R-VRQP1-24
Same as above except Southern Hemisphere without power cord	3R-VRQP1-23

Video Extension Cable

1.8-m video extension cable	BN39C-02

Options

Step 9 –Monitors –Recommended *(continued)*

Monitor Power Cords	
North America, Japan	BN26J-1K
UK/Ireland/Hong Kong	BN19A-2E
Central Europe	BN19C-2E
Switzerland	BN19E-2E
Australia/New Zealand	BN19H-2E
Denmark	BN19K-2E
Israel	BN18L-2E
Italy	BN19M-2E
India/South Africa	BN19S-2E
Japan	3X-BN46F-02

Step 10 – Networks and Communications – Optional

PCI 10/100-Mb 1-port Fast Ethernet controller (Twisted Pair); maximum two per system	DE500-BA
PCI 10/100-Mb 4-port Fast Ethernet controller (Twisted Pair); maximum one per system	DE504-BA
Cable for 10BaseT Twisted Pair connection	BN25G-xx

Step 11 – Additional Power Supply – Optional

- One additional power supply can be added to DS20 Pedestal system for N+1 redundancy. Redundant power supply requires country-specific power cord.

675W redundant power supply, requires country-specific 4.5-m rackmount power cord	H7899-AA

Step 12 – Keyboards, Power Cords, Documentation

- Systems ordered in North America include U.S. English keyboard; selection of country-specific keyboard is mandatory for all non-North American systems.

Keyboards	
UNIX U.S./English keyboard	SN-LKQ47-AA
UNIX Belgian keyboard	SN-LKQ47-AB
UNIX Canadian/French keyboard	SN-LKQ47-AC
UNIX Danish keyboard	SN-LKQ47-AD
UNIX UK keyboard	SN-LKQ47-AE
UNIX Finnish keyboard	SN-LKQ47-AF
UNIX German keyboard	SN-LKQ47-AG
UNIX Dutch keyboard	SN-LKQ47-AH
UNIX Italian keyboard	SN-LKQ47-AI
UNIX Swiss/French keyboard	SN-LKQ47-AK
UNIX Swedish keyboard	SN-LKQ47-AM
UNIX Norwegian keyboard	SN-LKQ47-AN
UNIX French keyboard	SN-LKQ47-AP
UNIX Latin-American keyboard	SN-LKQ47-AR
UNIX Spanish keyboard	SN-LKQ47-AS
UNIX Hebrew keyboard	SN-LKQ47-AT
UNIX Portuguese keyboard	SN-LKQ47-AV
UNIX BHCSY keyboard	SN-LKQ47-AX
UNIX International keyboard	SN-LKQ47-BA
UNIX Greek keyboard	SN-LKQ47-BH

Options

Step 12 – Keyboards, Power Cords, Documentation *(continued)*

Keyboards *(continued)*

UNIX Taiwanese keyboard	SN-LKQ47-BI
UNIX Korean keyboard	SN-LKQ47-BK
UNIX Polish keyboard	SN-LKQ47-BP
UNIX Hungarian keyboard	SN-LKQ47-BQ
UNIX Arabic keyboard	SN-LKQ47-BR
UNIX Cyrillic keyboard	SN-LKQ47-BT
UNIX Turkish keyboard	SN-LKQ47-BU
UNIX Czech keyboard	SN-LKQ47-BV
UNIX Thai keyboard	SN-LKQ47-CB
UNIX S. Chinese keyboard	SN-LKQ47-CV
UNIX Slovak keyboard	SN-LKQ47-CZ

Pedestal Power Cords

- Systems ordered in North America include BN26J-1K 120V North American power cord; order country-specific power cord for all non-North American systems and for redundant power supplies.

North American 120V, 75″	BN26J-1K
Australia, New Zealand, 2.5m	BN19H-2E
Central Europe, 2.5m	BN19C-2E
UK, Ireland, 2.5m	BN19A-2E
Switzerland, 2.5m	BN19E-2E
Denmark, 2.5m	BN19K-2E
Italy, 2.5m	BN19M-2E
Egypt, India, South Africa, 2.5m	BN19S-2E
Israel, 2.5m	BN18L-2E
Japan, 2.5m	3X-BN46F-02

Documentation

Additional AlphaServer DS20 User Guide (print and CD), Installation Card, and Release Notes	QZ-014AA-GZ

Step 13 – Printers – Optional

- Systems include two full-duplex asynchronous serial ports and one bi-directional enhanced parallel port
- Asynchronous serial ports have 9-pin D-subminiature connectors; 9-pin to MMJ adapter (H8571-J) required for each connection

Step 14 –M-Series Cabinet Enclosures –Mounting kit required for each system installed in M-Series Cabinet

- For more information on M-series Cabinet Enclosures, see www.digital.com/alphaserver/products/m-series/index.html
- M-series enclosure for DS20 requires the mandatory selection of the following items:
  - H9A10 or H9A15 cabinet, 120V or 240V
  - Rack kit for each system
  - 4-5-m power cord per system
  - Cabinet front door based on cabinet height
  - Factory integration
  - Ballast kit as required

Options

Step 14 –M-Series Cabinet Enclosures –Mounting kit required for each system installed in M-Series Cabinet *(continued)*

Cabinet Configuration Chart for AlphaServer DS20 (11U) with StorageWorks Shelves (4U)

Cabinet	Mounting Kit	Cabinet Height/Space	Systems	Shelves	Ballast Kit
H9A10-MC/MD	2T-R1200-AB	54.2″/ 31U	1 2	6 2	1 1
H9A15-MC/MD	2T-R1200-AB	66.5″/ 38U	1 2 3	6 6 2	2 1

Cabinet Enclosures

67″ cabinet enclosure with 31U or 54.2″ of usable vertical space; 120V dual-24A controller each with 10 NEMA 5-15R outlets, input power plug NEMA L5-30P, Americas, Asia Pacific; includes rear door, top fan tray, and two H7600-AA power distribution units	H9A10-MC
67″ cabinet enclosure with 31U or 54.2″ of usable vertical space; 240V dual-16A controller, each with 12 IEC C13 outlets, input power plug IEC 309, 16A, Europe; includes rear door, top fan tray, and two H7600-DB power distribution units	H9A10-MD
79″ cabinet enclosure with 38U or 66.5″ of usable vertical space; 120V dual-24A controller, each with 10 NEMA 5-15R outlets, input power plug NEMA L5-30P, Americas, Asia Pacific; includes rear door, top fan tray, and two H7600-AA power distribution units	H9A15-MC
79″ cabinet enclosure with 38U or 66.5″ of usable vertical space; 240V dual-16A controller, each with 12 IEC C13 outlets, input power plug IEC 309, 16A, Europe; includes rear door, top fan tray, and two H7600-DB power distribution units	H9A15-MD

Rackmount Kit

Rackmount Kit includes mounting shelf, slide rails, front dress bezel, interlock mechanism, and cable management bracket – system slides out front of cabinet for full service access; each system installed in cabinet requires one 4.5-m power cord for each power supply ordered with system	2T-R1200-AB
4.5-m power cord –North American	BN20Z-4E
4.5-m power cord –non-North American	BN35S-4E

Cabinet Front Door

Front door, top gun blue, for H9A10-MC/MD Cabinet Enclosure	H9C10-TF
Front door, top gun blue, for H9A15-MC/ MD Cabinet Enclosure	H9C15-TF

Factory Integration

Factory Integration of systems and storage devices assembled and configured in cabinet enclosure in predefined locations	YS-ASCAA-AA

Ballast Kit

- Ballast is added to a cabinet at exact locations for specific configurations to meet safety regulations for installation, operation, and service; it is required in H9A15 cabinets when only one system is installed. (See Cabinet Configuration charts)

Two 35 to 40 lb steel plates	H9C10-MC

Shelves supported in M-Series Cabinets

UltraSCSI RETMA rack, single-ended, single-bus personality module, 180W power supply, U.S. power cord	BA36R-RC
UltraSCSI RETMA rack, single-ended split-bus personality module, 180W power supply, U.S. power cord	BA36R-RD
Rackmount StorageWorks controller shelf with RETMA mounting kit and NEMA power for H9A10-MC/ H9A15-MC cabinets, North America, Asia Pacific; order BN30B-02 for mounting in H9A10-MD/H9A15-MD cabinet (Europe)	BA35R-MR
180W power supply, includes 120V North American and 240V IEC power cord	CK-BA35X-HH

Options

Step 14 –M-Series Cabinet Enclosures –Mounting kit required for each system installed in M-Series Cabinet *(continued)*

Compaq CustomSystems Support

- Cabinets containing systems and storage must be assembled by qualified assemblers: Compaq Manufacturing, Compaq *Custom*Systems Group, or authorized Compaq Certified Integration Partner.
- For custom integration of systems, options, cabinet expansion offerings, and additional Compaq and third-party devices, or for other cabinets, doors, and trim kits of a different color, contact Compaq *Custom*Systems at 1-800-AT COMPAQ, or your local authorized Compaq Certified Integration Partner.

Step 15 –Software

- Operating system software is not supplied with this system. See the AlphaServer Linux-ready Web site for more details: http://www.digital.com/alphaserver/linux/index.html

Step 16 –Hardware Supplemental Support Services

- Systems include three-year hardware warranty, on-site, with 5 x 9, 24-hour response time; select optional Hardware Supplemental Support Services, if required.
- Options ordered as part of "Initial System Sale" take on warranty of the enclosure; options added after "Initial System Sale" take on warranty of enclosure until enclosure warranty ends.
- All unique AlphaServer DS20 options have a minimum of one-year Return-to-Compaq warranty.

Hardware Supplemental Support— Americas and Asia Pacific only

5 x 9, 4-hour response time	FM-TC4HR-36
5 x 12, 4-hour response time	FM-TC512-36
6 x 16, 4-hour response time	FM-TC616-36
7 x 24, 4-hour response time	FM-TC724-36
Years 1-5, next day, on-site	FM-TCXHW-60
Years 1-5, 5 x 9, 4-hour response time	FM-TC4HR-60
Years 1-5, 5 x 12, 4-hour response time	FM-TC512-60
Years 1-5, 6 x 16, 4-hour response time	FM-TC616-60
Years 1-5, 7 x 24, 4-hour response time	FM-TC724-60

Hardware Supplemental Support Services— Europe only

- Europe does not offer specific part numbers for Hardware Supplemental Support Services; prices are quoted based on worldwide service reference pricing**—** contact MCS Sales in your country for information on Hardware Supplemental Support Services.

Technical Specifications

System Unit

Dimensions (HxWxD)	18.1 x 14.1 x 23.1 in/46 x 35.8 x 58.6 cm	
Shipping Dimensions	23.8 x 16.9 x 25.6 in/60 x 43 x 65 cm	
Weight		
Typical Configuration	86 lbs/39 kg	
Maximum Configuration	113 lbs/51 kg	
Shipping Weight		
Nominal	95 lbs/43 kg	
Maximum	156 lbs/71 kg	
Clearances	**Operating**	**Service**
Front	29.5 in/75 cm	29.5 in/75 cm
Rear	6 in/15 cm	29.5 in/75 cm
Sides	None	29.5 in/75 cm
Environmental		
Temperature		
Operating[1]	50° to104°F/10° to 40°C	
Rate of change	20°F/hr/ 11°C/hr	
Non-operating	–40° to 151°F/–40° to 66°C	
Storage (60 days)	–40° to 151°F/–40° to 66°C	
Rate of change	36°F/hr/20°C/hr	
Relative Humidity		
Operating	10% to 90%	
Non-operating	10% to 95%	
Storage (60 days)	10% to 95%	
Rate of change	20%/hr	
Maximum Wet Bulb Temperature		
Operating	82°F/28°C	
Storage	115°F/46°C	
Maximum Dew Point Temperature		
Operating	36°F/2°C	
Storage (60 days)	Not tested	
Maximum Heat Dissipation	Current	
Dual supply	4,097 BTU/hr	
Air Flow and Quality		
Intake location	Front	
Exhaust location	Rear	
Particle size	N/A	
Concentration	N/A	
Altitude		
Operating[2]	10,000 ft/3,048 m	
Non-operating	40,000 ft/12,192 m	
Mechanical Shock		
Operating	10 G 10 ms	
Non-operating	20 G peak 30 ms	
Vibration		
Operating	10 to 500 Hz 0.1 G peak	
Non-operating	1.03 Grms 5-300Hz	
Acoustics (Average declared)		
Idle	5.7 L^{wA}, B 38 $L^{p}A^{m}$, dba	
Operating	5.6 L^{wA}, B 37 $L^{p}A^{m}$, dba	

Technical Specifications

System Unit *(continued)*

Electrical (Power Supplies are universal, PFC, auto-ranging, 100/240 VAC)		
Nominal Voltage (VAC)	100 to 120 VAC	220 to 240 VAC
Operating Voltage Range (VAC)	90 to 128 VAC	180 to 256 VAC
Power Source Phase	Single	Single
Nominal Frequency (Hz)	60 Hz	50 Hz
Frequency Range (Hz)	59-61 Hz	49-51 Hz
Maximum Inrush Current per line core	11 Amps	22 Amps
RMS Current (maximum)	12 Amps	5 Amps
Single Power Supply	7.4 Amps each supply	3.7 Amps each supply
Dual Power Supply	11.7 Amps @ 100 VAC	4.9 Amps @ 220 VAC
RMS Current (typical)	9.3 Amps @ 120 VAC	4.4 Amps @ 240 VAC
Power Cord		
Type	IEC 320 C13	
Length	75 in. (190 cm)	
U.S. plug	NEMA 5-15	
Regulatory		
Agency Approvals	UL: Listed to UL1950 (third edition) CSA: Certified to CAN/CSA-C22.2 No. 950-M95 TUV: EN 60950 VDE 0805 GS marked FCC: Part 15.B Class A CE: EN55022, EN50082 VCCI Class II ITE BCIQ: CISPR22, CNS13438 C-Tick: CISPR22, AS/NZS 3548	
Reviewed to	AS/NZ 3260:1993 Australian/New Zealand Standard EN 60950/A4: 1997 European Norm IEC 950 (second edition, third amend)	

[1] Maximum operating temperature at sea level; reduce by 1.8F (1C) for each 2,000 ft (600m) above sea level.
[2] Higher altitudes are possible if maximum operating temperature is reduced (see Temperature); other restrictions may apply such as maximum permissible altitude for hard drives.