

Compaq Server Solutions

AlphaServer DS20E

Power and reliability in a space-saving rack-mount design

The newest member of the *Compaq AlphaServer* family combines the unbeatable power of the 500 MHz *Alpha™* 21264 processor with exceptional reliability and scalability in a standard rack design to create the ideal solution for demanding users like Internet service providers and telecommunications companies. The dual-processor *AlphaServer* DS20E delivers scalability, availability and power to keep businesses ahead of the competition.

Because reliability is crucial in this Internet-dependent age, the *AlphaServer* DS20E delivers features like hot-swap drives and fans, redundant power supplies with an optional third power supply and advanced server cluster support. *AlphaServer* DS20E gives the enterprise exceptional room to grow and investment protection with single or dual processors, a wide range of hard drives and memory kits, and multiple storage and expansion slots. And the small footprint and space-saving pedestal or standard rack design of the *AlphaServer* DS20E ease space constraints, upgrades and maintenance for growing companies.

For more than six years, *Compaq AlphaServer* systems have powered demanding computing environments, performing mission-critical applications superbly with uncompromising reliability. The *AlphaServer* DS20E is a key new member of the comprehensive Compaq enterprise solution family, continuing this remarkable tradition.



Compaq AlphaServer DS20E

→ Key Features

- 64-bit 500 MHz *Alpha* 21264 chip delivers superior business and technical application performance
- Small pedestal or standard rack-mount design saves space and facilitates access for upgrades and maintenance
- Hot-swap drives, fans and power supplies offer uncompromising reliability
- 1 or 2 processor upgradability allows room to grow
- Preferred operating system can be selected from *Compaq Tru64™* UNIX®, *Compaq OpenVMS™* and Linux

→ The Compaq Advantage

- Includes Compaq ServerWORKS Manager for exceptional server and network management capabilities
- Protected by Compaq Services, including a 3-year Limited Warranty¹
- Flexible leasing and financing alternatives enable businesses to adapt to changing business conditions

COMPAQ
NonStop™

Compaq Server Solutions

| Features | <i>AlphaServer DS20E</i> |
|-------------------------------------|--|
| Processor | <ul style="list-style-type: none"> → <i>Alpha</i> 21264 microprocessor 500 MHz CPU with 4 MB ECC onboard cache (supports up to 2 processors) |
| Memory | <ul style="list-style-type: none"> → 256 MB, 512 MB or 1 GB of ECC SDRAM memory standard, expandable up to 4 GB |
| Architecture | <ul style="list-style-type: none"> → <i>Alpha</i> 21264; PCI/ISA |
| Expansion Slots/Bays | <ul style="list-style-type: none"> → 6-slot/6-bay pedestal or rack mount with: <ul style="list-style-type: none"> 5 x 64-bit PCI slots 1 shared 64-bit PCI/ISA slot 1 combination 24X Max² CD-ROM and 1.44 MB diskette 1 removable media drive bay 4 hard disk drive bays |
| Storage | <ul style="list-style-type: none"> → 1 combination 24X Max² CD-ROM and 1.44 MB diskette → Hard drives (optional—one hard drive mandatory requirement): <ul style="list-style-type: none"> 9.1 GB 10K rpm Ultra SCSI 18.2 GB 10K rpm Ultra SCSI → Tape drives (optional): <ul style="list-style-type: none"> 12/24 GB 5.25" 4mm DAT SCSI 8 GB 4mm DAT 93 MB/min 5.25" narrow SCSI → External data storage (optional): <ul style="list-style-type: none"> 12/24 GB 4mm DAT narrow SCSI 32/64 GB 4mm DAT 5.25" SCSI 35/70 GB 5.25" single-ended SCSI DLT → Controllers: <ul style="list-style-type: none"> Ultra2 SCSI adapter is mandatory for system drive connection PCI-based Wide Ultra2 SCSI adapter (mandatory for system drive connection) PCI-based dual-port Ultra SCSI single-ended adapter and 10/100 Mbit Ethernet Combo adapter Ultra SCSI storage expansion, PCI, 1 port adapter Ultra SCSI FWD, PCI, 1 port adapter Backplane RAID Ultra SCSI controller, PCI, 4 MB cache, 1 port or 8 MB cache, 3 ports |
| Network Interface Controller | <ul style="list-style-type: none"> → PCI-based 10/100 Mbit Fast Ethernet (Twisted Pair) (optional) → PCI-based 10/100 Mbit Fast Ethernet Multi-Mode Fiber (MMF) (optional) → PCI-based 10/100 Mbit 4-Port Fast Ethernet (Twisted Pair) (optional) → PCI-based FDDI adapter, single attachment station (SAS), Multi-Mode Fiber (MMF) SC connector (optional) → PCI-based FDDI adapter, double attachment station (DAS), Multi-Mode Fiber (MMF) SC connector (optional) |
| System Software | <ul style="list-style-type: none"> → Compaq ServerWORKS Manager → <i>Tru64</i> UNIX Unlimited User license, Server Extension license, Internet <i>AlphaServer</i> System Software Kit, Netscape[®] Enterprise Server 3.0 or → <i>OpenVMS</i> base license with System Manager license, Enterprise Integrated Package V2.0 or → Linux is supported but not included or integrated with the Linux Ready Systems package |
| Interfaces | <ul style="list-style-type: none"> → 2 communications ports, parallel port, keyboard, mouse |
| Service and Support | <ul style="list-style-type: none"> → Protected by Compaq Services, including a 3-year Limited Warranty¹ with 3-year parts coverage, 1-year on-site service and 1-year labor; 24x7 hardware technical phone support and online support; Pre-Failure Warranty¹ coverage of hard drives, memory and processors |

Compaq AlphaServer DS20E Options

Systems

Tru64 UNIX 6/500 256 MB ... DA-56NRA-DA
Tru64 UNIX 6/500 512 MB DA-56NRA-EA
Tru64 UNIX 6/500 1 GB DA-56NRA-FA
OpenVMS 6/500 256 MB DY-56NRA-DA
OpenVMS 6/500 512 MB DY-56NRA-EA
OpenVMS 6/500 1 GB DY-56NRA-FA
Linux Ready 6/500 256 MB ... DJ-56NRA-DA
Linux Ready 6/500 512 MB ... DJ-56NRA-EA

SMP Upgrades

Tru64 UNIX 6/500
SMP Upgrade KN310-BB
OpenVMS 6/500
SMP Upgrade KN310-BC
Linux Ready SMP Upgrade KN310-BD

Memory

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

Monitors

15" 1024 x 768 color SN-VRQV5
17" 1280 x 1024 color SN-VRQP7
21" 1600 x 1200 color SN-VRQP1

Graphics Controllers

ELSA GLoria Synergy Graphics
with 8 MB SGRAM 1600 x 1200
2D/3D SN-PBXGK-BB

Disk Cage

4-slot Disk Cage 3X-BA611-4D

Internal Hard Drives

9.1 GB Ultra SCSI DS-RZ2DD-16
18.2 GB Ultra SCSI DS-RZ2ED-16

Tape Drives

12/24 GB 4mm DAT SCSI TLZ10-LB

Communications

10/100 Mbit Ethernet, PCI,
1-port (TP) DE500-BA
10/100 Mbit Ethernet, PCI,
1-port (MMF) DE500-FA
10/100 Mbit Ethernet, PCI,
4-port (TP) DE504-BA
FDDI Adapter, SAS, MMF DEFPA-AB
FDDI Adapter, DAS, MMF DEFPA-DB

Storage Controllers

1-port Wide Ultra2
SCSI Adapter SN-KZPCA-AA
Combo card, PCI, 2-port Ultra SCSI, 10/100
Mbit Ethernet KZPCM-DA
Ultra SCSI SE, PCI,
1-port Adapter KZPBA-CA
Ultra SCSI FWD, PCI,
1-port Adapter KZPBA-CB
Backplane RAID Ultra SCSI Controller,
4 MB cache, PCI, 1-port KZPAC-AA
Backplane RAID Ultra SCSI Controller, 8 MB
cache, PCI, 3-port KZPAC-CB

Storage Expansion Pedestals

Ultra SCSI SE Pedestal, Single-Bus 180W
Power Supply DS-BA356-KF
Ultra SCSI SE Pedestal, Split-Bus 180W
Power Supply DS-BA356-KG
Ultra SCSI FWD SE Pedestal, Single-Bus 180W
Power Supply DS-BA356-KH

Miscellaneous

DS20E Redundant
Power Supply FR-H7910-AA
Pedestal kit 3X-BA56P-PA
Rack-mount kit 3X-BA56R-RA

Compaq AlphaServer DS20E



Highly available

Hot-swap drives, fans and power supplies offer uncompromising reliability for today's demanding environments and Internet-dependent business world.



Scalable

Single or dual processors, a wide range of hard drives and memory kits, multiple storage and expansion slots provide investment protection and room to grow.



Space-saving design

Space-saving, pedestal or rack-mount design for space constrained departments and easy upgrades and maintenance.

Compaq Delivers Solutions for Business

Compaq Financial Services

Customized leasing and financial asset management services:

- Competitive rates, simple processing and 100 percent solution financing
- The ability to bundle payments for hardware, software and services into one fixed monthly payment
- Flexible invoicing options
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- Customized "tech refresh" solutions for upgrading or expanding your technology over time
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For More Information:

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