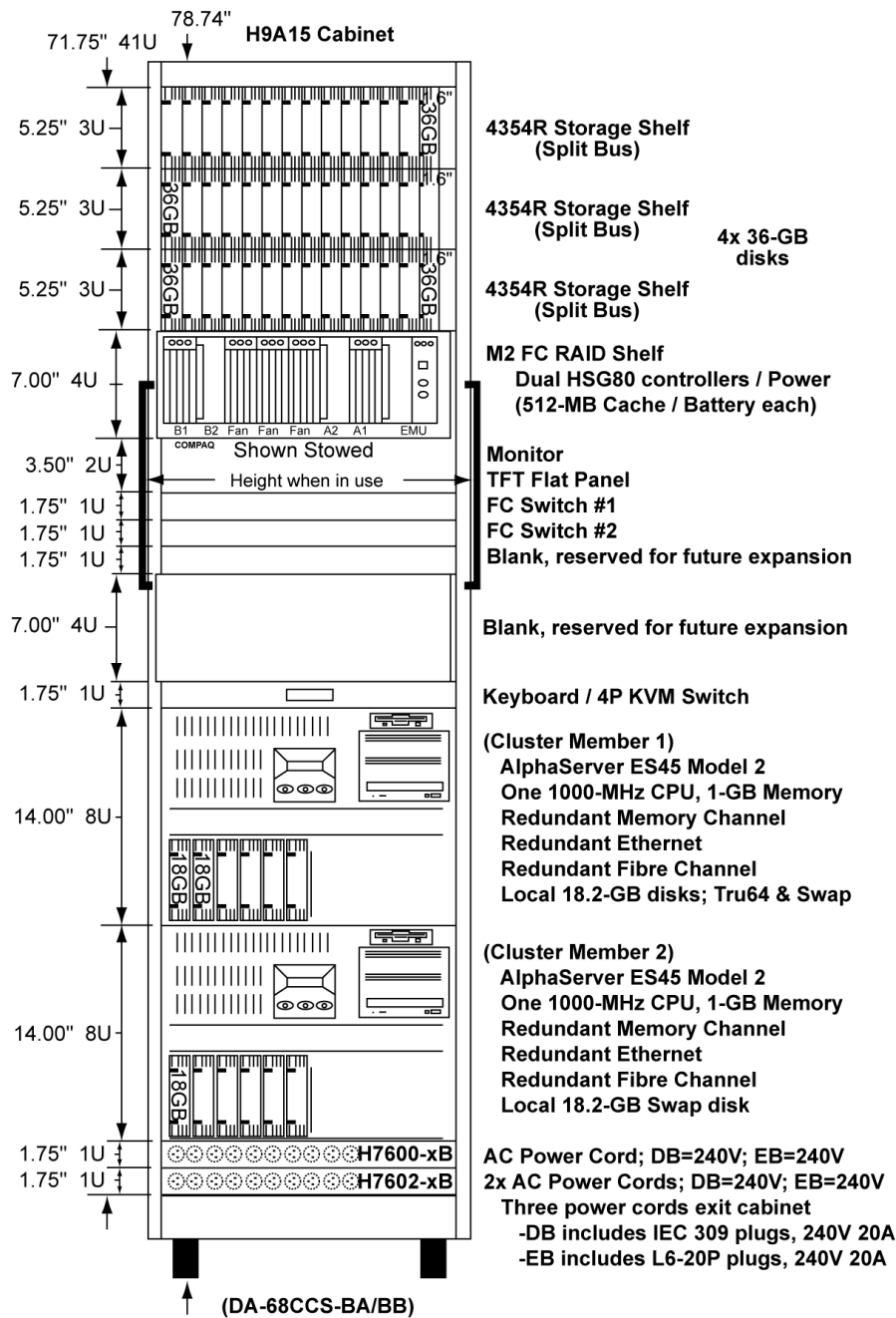*Overview*

At A Glance

Dual Rackmounted Compaq AlphaServer ES45 systems, Alpha 21264 1000-MHz CPUs, 1-GB memory, Clustered, Tru64 UNIX®

- Jointly tested and certified by Compaq and Oracle
- Configured and fully tested with two AlphaServer ES45 Model 2 systems, each with EV68 1000-MHz processor
- Tru64 UNIX V5.1A operating system
- Oracle9i 9.0.1.2 with Real Application Clusters
- Cluster system with no single point of failure
- Hardware and software factory integration and test conducted by Compaq
- Optional TL891 backup tape drive
- Optionally configurable to meet unique customer specifications
- Shipped in the cab and ready to plug in and run at specified operational level

QuickSpecs

Standard Features

Processor	Alpha 21264C 68/1000-MHz CPU	
Cache Memory	8-MB L2 Dual Data Rate Backup Cache	
Upgradability	Supports upgrades of memory and hard drives	
Memory	Standard	1 GB or 4 GB depending on configuration
	Maximum	32 GB (32 DIMM slots)
Network Controller	Two DE600 Ethernet cards	
Expansion	PCI I/O slots	10 slots (8 used)
Storage	Diskette Drive	1.44-MB diskette drive in dedicated slot
	CD-ROM	600-MB 40X IDE CD-ROM
	M2 Storage Shelf	2200 Dual RAID to 6 SCSI storage shelf with dual power supply
	Fibre Channel RAID controllers	Two HSG80 disk controllers with 256-MB mirrored cache each
	Fibre Channel Switches	Two Fibre Channel SAN switch/8 with fabric software
	Fibre Channel Host Bus Adapters	Four KGPSA dual loop adapters, 64 bit (2x PCI)
	Hard Drives	18.2-GB Ultra3 SCSI 10K rpm, two drives in the first cluster member and one drive in the second cluster member
		36.4-GB Ultra3 SCSI 10K rpm, 4-84 drives shared
		(one mirror set, two spares)
Interfaces	Parallel	One 25-pin parallel port
	Serial	Two 9-pin serial ports
	USB	Dual USB ports
	Keyboard/trackball	One
	Remote systems management	One dedicated remote systems management port
	SCSI connectors	Two 68-pin SCSI connections knockouts
Form Factor	2-meter Rackmount Cabinet	
	HWD, 79/201, 24/61, 39/99 (in/cm)	
	Power requirements, DA/GA - 120v, 3 L5-30P cords, DB/GB - 240v, 3 IEC309 cords	
Power Supply	Auto sensing power supplies, hot swappable, N+1	
Manageability	Compaq Insight Manager	
OS Support	Systems include Tru64 UNIX pre-installed software, base license, unlimited-user license, server extension license, and TruCluster Server software	
	Minimum OS supported - Tru64 UNIX V5.1A	

Standard Features

OS Support	Oracle9i 9.0.1.2 with Real Application Cluster - Enterprise Edition pre-installed with test database (30-day trial licenses included)
Warranty	Protected by Compaq Services including a one-year on-site hardware warranty with next business day response. Compaq Tru64 UNIX Software warranty is a 90-day telephone advisory. Training, consulting, network integration, software support, comprehensive system maintenance and guaranteed uptime services are also available for customers requiring higher levels of service and support.

System

System	CPU	Memory	Order Number
Dual Rackmounted AlphaServer ES40	One Alpha 21264 833-MHz CPU	1 GB Memory	(NA) DA-64CCS-DA (EMEA) DA-64CCS-DB

Sizing Guide for Upgrades

DA-64CCS-DA/DB			
Processors per node	Number of Disks	Minimum Memory Per Node	Maximum Memory
1	4-22	1 GB	24 GB
2	4-42	2 GB	24 GB
3	4-84*	3 GB	24 GB
4	4-84*	4 GB	24 GB

NOTE: * If more than 42 disks are added, a Modular Array 8000(MA8000) RAID array and cabinet are required.
Additional disks must be added in pairs to support mirroring for high availability. For each processor, the system requires a minimum of 1 GB of memory.

Compaq TruCluster Server Benefits:

- Ability to manage multiple systems as one from anywhere
- Slashes management costs with superior onboard management
- Easily scales applications to suit business growth
- Provides high availability at an affordable price

Compaq Tru64 UNIX   **Benefits:**

- Makes system management simple and cost effective
- Provides scalability beyond the limits of a single system
- Provides single system management for multiple systems
- Provides single network access to multiple systems
- Provides single access to shared storage for multiple systems
- Powers the most performance-hungry applications
- Facilitates explosive growth
- Provides Compaq NonStop availability

Software   **Software Processor Code = E**

Compaq Tru64 UNIX – (media and documentation included)

TruCluster Server AdvFS, and LSM License (one per cluster member)	QP-6R9AE-AA
TruCluster Server Documentation kit	QA-6BRAA-GZ
Tru64 UNIX media and online documentation on CD-ROM	QA-6ADAA-H8
VIS services for Oracle RAC ES45 platform	YT-EBVIS-AA

Oracle Products

30-day trial version of Oracle9i, enterprise edition (including Real Application Clusters) - single user versions

Oracle Licenses (one required)

Oracle licenses must be purchased separately.

Oracle9i Real Application Cluster Enterprise Edition for Tru64 UNIX O/S Perpetual License

Oracle9i Real Application Cluster Enterprise Edition for Tru64 UNIX O/S 4-year License

Oracle9i Real Application Cluster Enterprise Edition for Tru64 UNIX O/S 2-year License

System

HP Care Pack Priority Services

HP Care Pack Priority Services offer a totally new approach that removes the complexity from evaluating, planning, and purchasing services for Compaq Alpha and Storage platforms. CarePaq Priority Services are easy to purchase and easy to use. These new and innovative offerings can now be easily deployed with our new AlphaServer ES45 Oracle 9iRAC Certified Configurations ensuring fixed service pricing and ease of ordering.

Standard Offerings:

- HP Care Pack Priority Services provide an integrated hardware and software support that ensure consistent coverage across system configurations
- HP Care Pack Priority Service offers a rapid four-hour response with guaranteed work-through to completion for three years
- HP Care Pack Priority Services have a standard call window of Monday to Friday 08:00 - 17:00 with uplifts to full 24 x 7 over three years with four-hour response time and work through to completion
- HP Care Pack Priority Services also provide software support with a two-hour response time for telephone access to highly trained support personnel

NOTE: For more information on how to order HP Care Pack Priority Services in EMEA, contact your local Certified Integration Partner or Authorized Reseller.

Technical Specifications

Refer to the AlphaServer ES45 QuickSpecs for technical specifications - http://h18000.www1.hp.com/products/quickspecs/10994_div/10994_div.HTML
NOTE: This Web site is available in English only.