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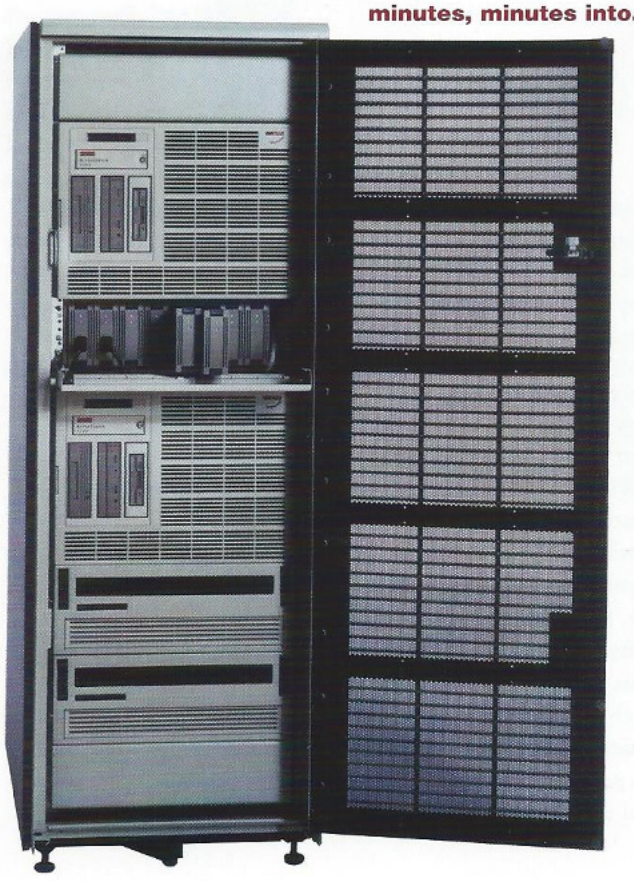
AlphaServer 2100A RM and CAB systems

Shattering world records in both price and performance

Do you have some transactions to process? Could you use a system that tears through over 3000 transactions per minute at a cost of $196/tpmC? If so, take a look at the AlphaServer 2100A family of 64-bit RISC processors packing the horsepower to revolutionize the way you do business. Cut days of processing into hours, hours into minutes, minutes into... well, you get the idea.



It just keeps getting better. More applications, higher performance, success stories from around the globe in everything from healthcare to the Internet.

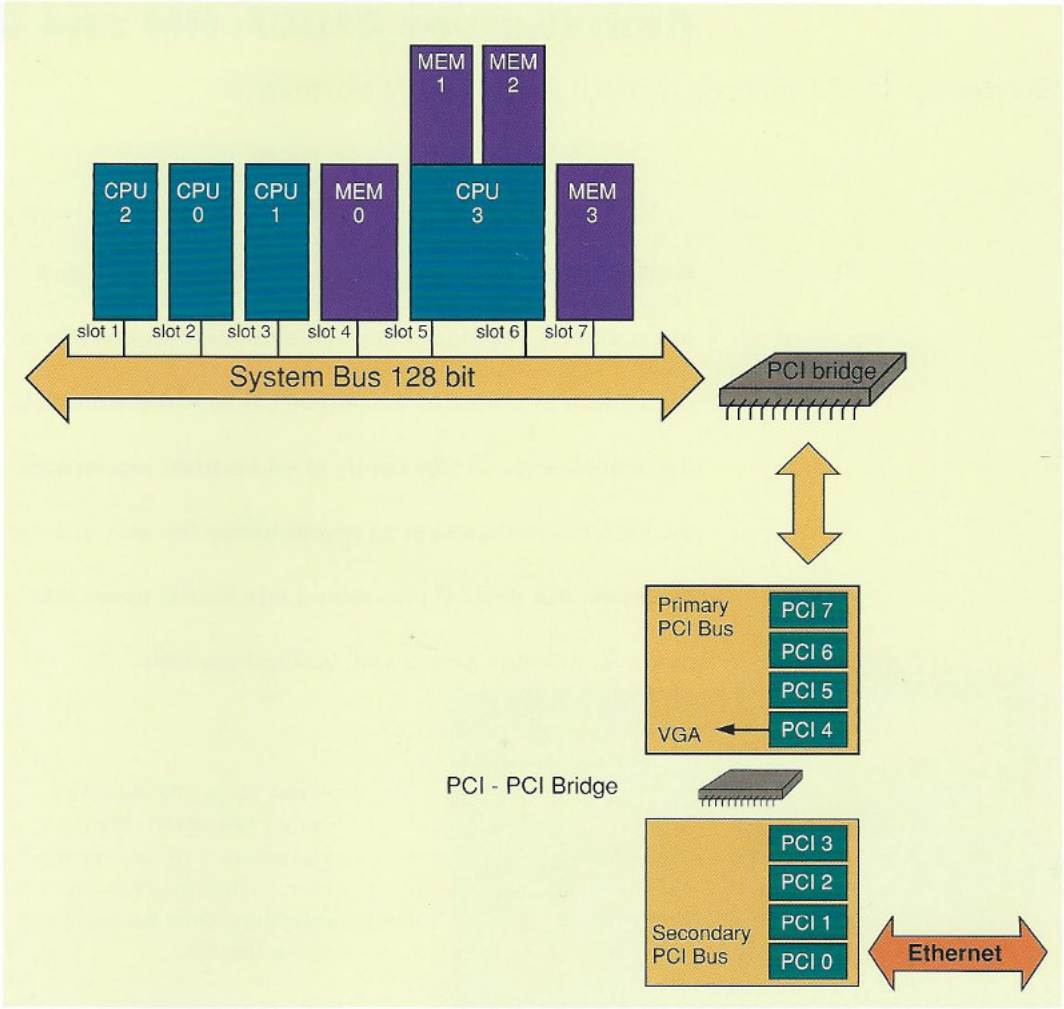
The AlphaServer family is a hit with an open, accessible operating environment and industry-leading 64-bit RISC technology (putting to shame machines that cost five times the price). Now, the new AlphaServer 2100A RM (rackmount) and CAB systems give you the opportunity to experience 64-bit processing for yourself. Best of all, you can get them rackmounted, leveraging the equation of power per square foot into a whole new world of price/performance.

Benefits

- 64-bit Alpha processors drive high-performance I/O to handle the most demanding processing and networking challenges.
- Thousands of applications are ready to run on your choice of Digital UNIX, OpenVMS, or Windows NT Server operating system software.
- Rackmounting consolidates systems, storage, and communications options in a functionality-packed cabinet that maximizes performance per square foot of floor space.
- Off-the-shelf building blocks are integrated and tested to produce a highly available system that meets your performance requirements and keeps your business online.
- StorageWorks modular subsystems enable you to buy the storage you need today and seamlessly expand to meet tomorrow's needs.
- Three-year hardware warranty provides the best support available today.

Highlights

- Install up to four 4/275 MHz, 5/250 MHz, or 5/300 MHz Alpha processors in powerful SMP configurations.
- Add low-cost, industry-standard options with 8 PCI and 3 EISA slots.
- Enjoy unparalleled investment protection through a simple backplane upgrade from any AlphaServer 2100 systems to the new AlphaServer 2100A.
- Employ optional redundant power supplies and Uninterruptible Power Systems to ensure maximum uptime.
- Deliver mainframe class computing with OpenVMS or UNIX clusters.
- A range of features support high reliability and availability on Digital UNIX, OpenVMS, and Windows NT.



Meeting the challenge

In the current highly competitive, rapidly changing business climate, critical applications demand more from the systems that support them. Users demand quick response times, fast application processing, and uninterrupted service. IT and system managers demand a computing environment that satisfies users and can incrementally, cost effectively expand as the business grows—while preserving current investments.

AlphaServer 2100A RM and CAB systems are optimized to support these computing realities. With their Alpha central processors, symmetric multiprocessing with up to four processors, and high performance, industry-standard PCI I/O, the AlphaServer 2100A systems provide exceptional throughput to meet rigorous application processing requirements and cost-effective incremental expansion.

Choose your speed

Using an Alpha 21064A microprocessor, the AlphaServer 2100A 4/275 features a 275 MHz CPU with 4 MB cache.

Both the AlphaServer 2100A 5/250 and 5/300 use the AlphaServer 21164 microprocessor with 4 MB cache, which features a 250 MHz and 291 MHz CPU respectively.

Each system can be configured with up to four processors of the same speed for symmetric multiprocessing (SMP). The systems support up to 2 GB of memory and 6 GB of internal disk storage. Install up to four processors per system.

Configured with eight PCI slots and three EISA slots, the system bus bandwidth is 667 MB per second. The high-performance PCI I/O subsystem has a peak bandwidth of 132 MB per second. The 33 MB per second EISA I/O bus supports a number of industry-standard EISA options.

Rackmount flexibility

Ideal for general-purpose commercial and high-performance applications, database, and PC LAN Superserver computing environments, the AlphaServer 2100A RM and CAB systems give you flexibility to suit your configuration requirements with its modular design.

Pick your storage options

To ensure the highest levels of uptime, the AlphaServer 2100A RM and CAB systems are designed with minimal internal storage, while most of your data is stored in independent storage shelves within the cabinet.

Mission-critical environments

Supporting StorageWorks storage devices, the AlphaServer 2100A RM and CAB systems boast high-availability features such as optional controller-based RAID and hot swap of disks for mission-critical environments. RAID levels supported are 0 (striping), 1 (shadowing), 0+1 (striped shadowing), and 5 (striping with parity).

You can locate all storage in as many as 9 StorageWorks shelves, which provide up to 270 GB using 4.3 GB disks.

A single power supply supports a fully loaded system. Plus, the rackmount configuration supports optional redundant power supplies in an N+1 organization.

Powerful yet compact

Space is always at a premium. Configured in a rackmountable chassis, the AlphaServer 2100A RM and CAB systems conserve floor space while producing exceptional computing power and extensive storage capabilities.

The chassis can be pre-assembled prior to delivery, giving you a totally integrated solution. Or, the systems can be shipped directly to your site for integration on location.

Easy maintenance

The AlphaServer 2100A RM and CAB system components can be easily accessed from the front to accommodate service and maintenance tasks while minimizing downtime. Front-to-back cooling enables the installation of third-party components without affecting the system operating temperature.

Investment protection

If you are currently running AlphaServer 2100 systems and want to upgrade to 2100A performance, all it takes is a simple onsite backplane upgrade. All CPUs and most I/O bus options supported on the AlphaServer 2100 are supported on the AlphaServer 2100A.

Of course, all these systems are binary compatible with the other members of the AlphaServer family.

You're covered for three years

All AlphaServer 2100A RM and CAB systems are covered by a three-year onsite, next-business-day response time warranty. Software is covered with 90-day Software Product Description (SPD) conformance with advisory telephone support.

A broad range of service and support

Whether you require training, consulting, network integration, software support, or comprehensive system maintenance, Digital's global service capability is the single-source solution to meet your needs.

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AlphaServer 2100A RM and CAB Specifications

	Model 4/275*	Model 5/250*	Model 5/300*
CPU Features			
Microprocessor	21064A Alpha	21164 Alpha	21164 Alpha
Number of processors	Up to 4	Up to 4	Up to 4
Clock speed	275 MHz	250 MHz	291 MHz
Cache on chip	16 KB I-cache	8 KB I-cache	8 KB I-cache
	16 KB D-cache	8 KB D-cache (up to 96 KB)***	8 KB D-cache (up to 96 KB)***
On-board cache per processor	4 MB	4 MB	4 MB
Performance			
SPECint92	200.1	277.1	319.3
SPECfp92	292.6	410.4	477.3
I/O			
Maximum memory	2 GB**	2 GB**	2 GB**
Internal system storage	Up to 2 Fast SCSI hard disks, up to 3 removable media	Up to 2 Fast SCSI hard disks, up to 3 removable media	Up to 2 Fast SCSI hard disks, up to 3 removable media
	RAID 0, 1, 0+1, 5	RAID 0, 1, 0+1, 5	RAID 0, 1, 0+1, 5
Maximum internal storage	270 GB	270 GB	270 GB
Maximum total storage	650 GB	650 GB	650 GB
Maximum I/O throughput (all systems)	PCI: 132 MB/s, EISA: 33 MB/s		
I/O support (all systems)	8 PCI slots, 3 EISA slots		
Options			
Networking	Ethernet, FDDI, Token Ring, synchronous communications		
Storage	Fast SCSI-2/3, FWD SCSI-2/3, RAID, DSSI (OpenVMS only), Prestoserve (Digital UNIX only)		
Availability Features			
System	Auto reboot, thermal management, redundant power system (optional), remote system management, RAID, disk hot swap, memory failover, ECC memory, ECC cache, SMP CPU failover, error logging, optional uninterruptible power supply, multiple systems, multiple power sources, dual-ported storage		
OpenVMS clusters	Ethernet, DSSI, FDDI		
AdvantageCluster	DECsafe ASE (UNIX)		
Operating Systems	Digital UNIX, OpenVMS, Windows NT Server		
Operating Environment	CAB	RM	
Temperature	10°C to 35°C (50°F to 95°F)	10°C to 40°C (50°F to 104°F)	
Relative humidity	10-90% (noncondensing)	10-90% (noncondensing)	
Power supply (CAB)	3450W	1200W	
Physical dimensions	CAB	RM	
	170.0H x 60.0W x 85.0D cm	35.0H x 45.0W x 70.5D cm	
	66.9H x 23.6W x 34.0D inches	14.0H x 19.0W x 27.75D inches	
Warranty	Three-year on-site; next business day response time. Warranty may be upgraded to enhance your coverage.		

*Up to three systems fit in a single rackmount system.
**1 GB with four processors.
*** With unified L2.

Note: Features may differ among operating environments. Performance may vary depending on configuration, application, and operating environment.

Call us

Put the power of rackmount AlphaServer systems to work for you. Contact your Digital sales representative or authorized business partner. Or, call 1-800-DIGITAL to speak with a representative or request a fax via a touch-tone telephone in the U.S. and Canada. Outside North America, dial 1-908-885-6426. For on-line information, send mail to info@digital.com.

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