

MicroVAX 3100 and VAX 4000 Desktop Servers

Departmental servers, affordable solutions for mission-critical applications

VAX desktop servers offer the same high levels of functionality and openness — now with affordable memory and storage options in space-saving desktop and rackmount enclosures.

VAX technology means dependability, reliability, and high availability. Now take advantage of enhanced VAX servers with low-cost storage and memory options with the MicroVAX 3100 and VAX 4000 servers. The result? Your investment in VAX technology remains secure. Your mission-critical applications maintain their high availability. And you can still reap the investments of VAX technology — interoperability, performance, and easy upgradability at a greatly reduced cost of ownership.

Benefits

- New packaging
 - > minitower or desktop orientation
 - > 50% smaller footprint than previous desktop servers (minitower)
 - > VAX 4000 Model 108 enclosure is available in desktop and rackmountable configurations
 - > easy to install and service
- Standard SIMM memory and storage options for lower cost of ownership
- Ability to consolidate your VAX assets
- Increased memory capacity to run complex applications efficiently
- Increased storage capacity and more flexible configurations for room to grow
 - > using latest SCSI disks, tapes, and devices
 - > space for 6 internal SCSI storage devices
- Proven VAX technology
 - > reliability, availability, scalability, and interoperability
- Investment protection
 - > compatibility across entire VAX family line
 - > broad range of solutions to fit every business need
 - > compatible with existing external storage options
 - > cost-effective components
 - > easy in-box upgrades (3100/88) (MV3188 to 98)
- Industry-leading warranty
 - > 3-year on-site, hardware support
 - > next-business-day response
- Shipping with OpenVMS™ v6.2 and NAS 200 software
 - > safeguards future investments in software
 - > compatible with OpenVMS v5.5-2 to work with your legacy applications
- Simple upgrade to AlphaServer™ systems as your business grows



Interested in lowering your cost of ownership and consolidating your assets? Then look no further than

Digital's MicroVAX 3100 Models 88 and 98 and VAX 4000

Model 108 and Rackmount VAX 4000 Model 108 systems.

Ample elbow room

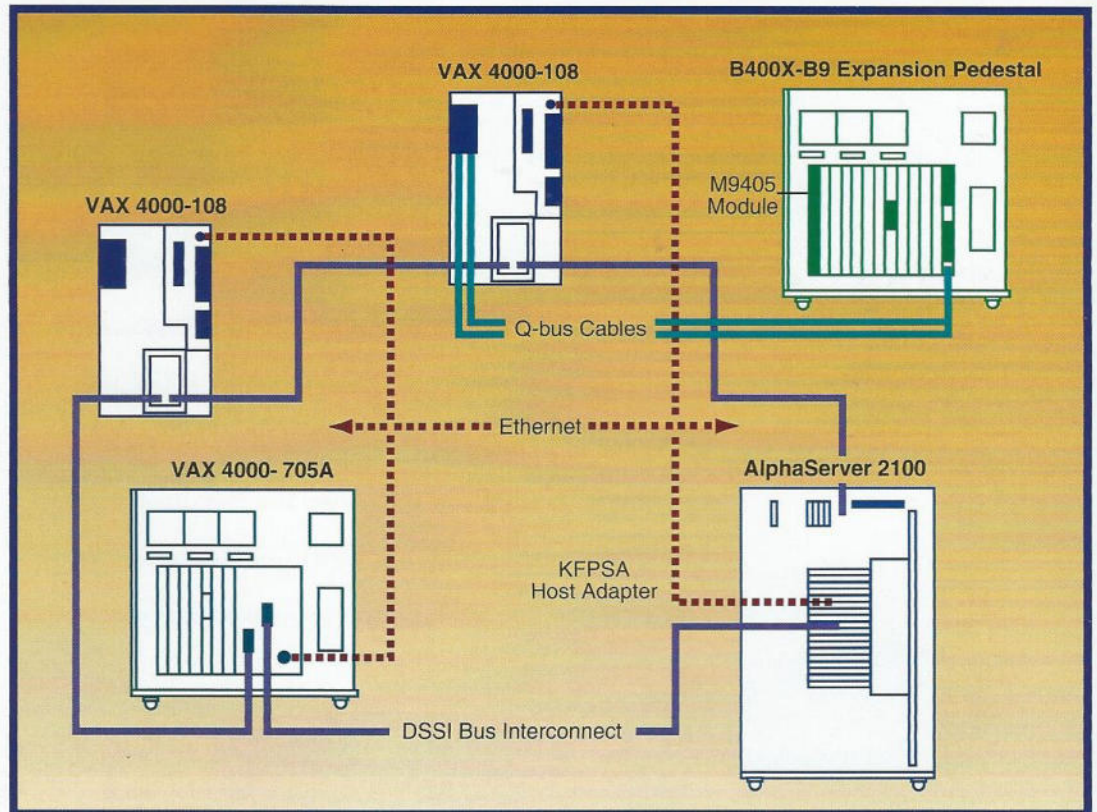
Today's VAX desktop servers provide the same proven VAX logic and architecture in a commodity component design. They come with standard SIMM memory and storage components and provide a low-cost, open solution for VAX computing. And with more headroom – up to 256 MB – you can expand memory to operate larger and more complex applications. What's more, the smaller footprint of the Rackmount VAX 4000/108 lets you consolidate your desktop environment – when space is at a premium – a major savings in cost of operations.

Digital's VAX desktop line-up offers you engineering excellence, exceptional features, and continued investment in a wealth of OpenVMS applications. Compatible with earlier versions of the OpenVMS operating system – including Version 5.5-2 – both desktop servers underscore Digital's commitment to the 10 million VAX users who run their core business applications on it.

Range of desktop servers

Match your applications environment and budget with a VAX desktop server from Digital. Whether you operate a small business, research lab, warehouse, or shop floor, your applications require a world-class technology like VAX. It's

Typical VAXServer Cluster



an investment you can count on — to lower your cost of ownership with flexible, space-efficient packaging and hardware compatibility and one that you've come to depend on — to securely run your mission-critical, bet-your-business applications.

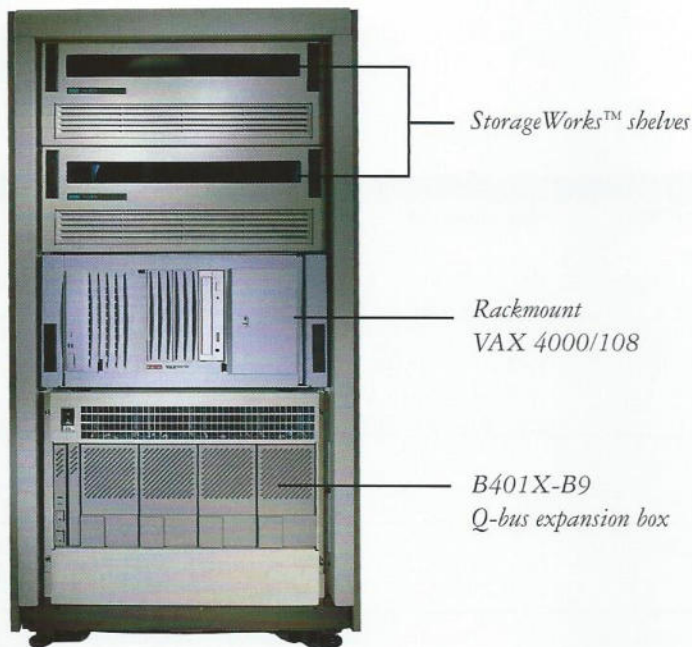
First, the MicroVAX 3100. It offers you minimal risk and a high return on investment. Start out with the affordable Model 88. Then as your business grows, select the Model 98.

Its 10ns CPU is perfect for those demanding mission-critical applications.

Or choose the dependable, feature-rich, clusterable VAX 4000 desktop servers. When your business requires disk shadowing, backup, and high availability, their DSSI clustering software uses SCSI disks that you can increase as needed at an affordable cost. They also offer Q-bus™ connectivity. And your department can be assured of minimal downtime by clus-

tering the compatible Alpha and VAX 4000 product lines for even higher levels of system performance.

Both servers come with Network Application Support (NAS) 200 software. NAS 200 includes DECnet, TCP/IP, PATHWORKS™ server, and POLYCENTER™ Software Distribution client, giving you the power of open system connectivity. Their powerful CPUs, disk, expanded memory, and Ethernet performance offer



high system reliability and the flexibility to keep pace with your technical or commercial applications environment.

Both servers run the reliable OpenVMS operating system that 10 million users employ to run their mission-critical applications. OpenVMS' outstanding clustering features safeguard data integrity and security. Its scalability and high availability features are unparalleled in the industry. And OpenVMS complies with industry standards. You can choose from thousands of applications — or build your own. The combination of OpenVMS software and VAX desktop servers hardware is an unbeatable duo that only Digital can provide and will continue to advance to meet your current and future needs.

Room to grow

VAX technology lets you expand at your own pace, using networking or clustering options. If you choose the latter, you can cluster numerous VAX

4000 desktop servers at a single site or across locations, scattered hundreds of miles apart. There's no limit to what you can do with VAX technology.

We stand by you

A 3-year on-site hardware product warranty is standard for the VAX departmental server family. If you need support or service, count on Digital to respond within 24 hours. You can also rely on Digital — the recognized leader in multivendor services — to stand by you with a full range of system management, training, administration recovery, and supplemental support services to meet your individual needs.

Your next step

For more information call 1-800-DIGITAL via a touch-tone phone in the U.S. or Canada, or 1-908-885-6426 outside the U.S. and Canada. For online product information (including how to order), visit Digital's VAX home page on the Internet at <http://www.digital.com/info/vax>

Flexible, efficient rackmount design

No matter what your computing style or strategy is — client/server, distributed, or host-based — the Rackmount VAX 4000 Model 108 system combines low cost of ownership with reliability. You get robust compute power and enormous storage capacity — in a very small footprint. Requiring only 8.75 inches of vertical rack, the Rackmount VAX 4000 Model 108 supports two high-speed DSSI controllers and HSD10 DSSI to SCSI adapters, so you can take advantage of industry-standard SCSI devices.

All the features and functionality found in the VAX 4000 desktop server are identical to the Rackmount. So you can organize your department's resources — systems, storage, and other options — in one easily accessible 19-inch wide EIA rackmount cabinet for higher performance in a smaller space. Other features and benefits include:

Stack your choice of systems and specialized components

- Install tape and other storage devices in StorageWorks shelves
- Save space with efficient, vertical stacking for easy service and configuration
- Factory-installed hardware and software translate to quick, easy installation
- Front-to-back cooling
- Slides for easy front access
- Industry-standard components, tested and approved against major national and international specifications
- B401X Q-bus expansion box increases configuration options

The Rackmount VAX 4000 system is also packaged with Network Application Support (NAS) 200 software. What's more, you gain the added benefit of open and modular storage systems. Configure your StorageWorks subsystems for your specific departmental environment, based on capacity, availability, performance, and cost considerations. In all, the Rackmount VAX 4000 system lets you build custom configurations tailored to meet your departmental needs.



VAX Server family				
Model	MicroVAX 3100/88	MicroVAX 3100/98	VAX 4000/108	Rackmount VAX 4000/108
No. of processors	1	1	1	1
CPU clock speed	62.5 MHz	100 MHz	100 MHz	100 MHz
Cache size (chip on board)	10 KB/128 KB	10 KB/512 KB	10 KB/512 KB	10 KB/512 KB
Max. Memory	256 MB	256 MB	256 MB	256 MB
Disk capacity (internal/external)	19.2 GB/60.2 GB	19.2 GB/60.2 GB	19.2 GB/335.4 GB	19.2 GB/335.4 GB
I/O bus	2 SCSI/NI	2 SCSI/NI	SCSI/2 DSSI/NI/Qbus	SCSI/2 DSSI/NI/Qbus
OpenVMS Cluster	Ethernet	Ethernet	Ethernet, DSSI, FDDI	Ethernet, DSSI, FDDI
Performance				
tps (est.)	110 tps	200 tps	215 tps	215 tps
vups	16	38	38	38
Software				
Operating system	OpenVMS	OpenVMS	OpenVMS	OpenVMS
Network support	NAS 200	NAS 200	NAS 200	NAS 200
Operating environment				
Temperature	10°C to 40°C (50°F to 104°F)		10°C to 40°C (50°F to 104°F)	
Relative humidity	20% to 90% noncondensing		20% to 90% noncondensing	
Max. operating altitude	3,048 m (10,000) ft.		3,048 m (10,000) ft.	
Non-operating environment				
Temperature	-40°C to 66°C (-40°F to 151°F)		-40°C to 66°C (-40°F to 151°F)	
Relative humidity	10% to 95% noncondensing		10% to 95% noncondensing	
Max. non-operating altitude	12,192 m (40,000) ft.		12,192 m (40,000) ft.	
Power requirements				
Input voltage (nominal)	100-120 VAC/220-240 VAC	100-120 VAC/220-240 VAC	100-120 VAC/220-240 VAC	100-120 VAC/220-240 VAC
Frequency tolerance	47-63 Hz	47-63 Hz	47-63 Hz	47-63 Hz
Phases	single	single	single	single
Surge current (@120/240VAC)	40 amps/80 amps	40 amps/80 amps	40 amps/80 amps	40 amps/80 amps
Physical characteristics				
Height	16.0 in	16.0 in	16.0 in	8.75 in
Width	8.7 in	8.7 in	8.7 in	19.0 in
Depth	18.7 in	18.7 in	18.7 in	27.2 in
Weight	35 lb	35 lb	35 lb	45 lb
Enclosure	Minitower	Minitower	Minitower	Rackmountable
Warranty	Three-year, on-site, 24-hour response time			

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

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