

hp e3000
business servers



a-class
product brief



*delivering high performance
in a compact package*

delivering our promise

For a while now, you've been wondering how you can take advantage of new technology advances and make your business processes faster and more profitable. You know you like the HP e3000. Maybe your particular model is getting old. You know you need to get current again. But you don't have a whole lot to spend on a server or on cost of ownership.

We understand your challenge. Hewlett-Packard offers you its new HP e3000 A-Class server. It's the affordable answer you've been waiting for! This entry-level, web enabled data management server is small, fast and inexpensive. It's going to fit your business needs.

- **run it**—65% more performance than previous entry level HP e3000 servers
- **trust it**—modular growth and expansion – headroom for years to come
- **evolve it**—embrace new business models with our integrated Internet server and IMAGE/SQL database management software

a chance to break into new technologies

The HP e3000 A-Class is an ideal platform for today's or tomorrow's web enabled applications. Its speed, combined with the power of the MPE/iX operating system, provides an excellent environment for many computing applications, including manufacturing, e-commerce, mail order, financial administration, governments, and schools.

The HP e3000 A-Class server uses a state-of-the-art bus structure designed to support two Precision Architecture (PA-RISC) processors today and generations of higher frequency processors into the future (see tables 1 and 2). When you need that future burst of growth, it's easy to add more or faster processors, more I/O and even more memory. Expand when you want to, at your own pace.

your applications will really fly

The HP e3000 A-Class server includes the open MPE/iX operating system optimized with years of tuning and enhancements to meet your business computing needs. It comes with the IMAGE/SQL database bundled in, to securely manage your business data without going to expensive third-party databases.

Whether your IT environment needs an upgrade from yesterday's technology, or you are embarking on the reengineering of your business processes for today's e-commerce world, the HP e3000 A-Class server is an excellent platform you can depend on for many years to come.

affordable

The HP e3000 A-Class server contains Internet development tools to securely take you to the e-world. At the same time, it provides you with an "always on" infrastructure to get the most out of the opportunities you don't want to miss in an evolving business world. Inject your business with new levels of performance at an affordable cost (see figure 1).

thinking about your future



- Support for all Series 9x7 servers (discontinued in 1997) will end their support life in April 2002.
- Series 9x7 and earlier 9xx families are not supported on the new MPE/iX 7.0 operating system.
- The HP e3000 A-Class server provides 65% more performance than the Series 918 or the Series 917-947 servers
- MPE/iX 7.0, introduced with the new A- and N-Class servers, offers you many Internet tools such as web connectivity and Java.
- The new HP e3000 A- and N-Class servers are the platforms on which most future MPE/iX functionality will be implemented, such as Gbit LANs and native FibreChannel I/O.
- The rising cost of support for older servers, combined with a growing scarcity of repair parts, mark them as prudent candidates for replacement. Plan now to upgrade your earlier HP 3000's to A-Class servers.
- Fund your new server's purchase with the support cost savings from your older servers! (See figure below)

figure 1. hp e3000 a-class core server cost of support



Based on servers with MPE/iX and IMAGE/SQL, for non-A-Class Servers user license levels vary between 20 and unlimited, LTU software updates, and phone-in software assistance. Compares annual server support costs. A-Class first year support costs will be lower since new HP e3000 servers are covered by 1-year HP hardware warranty. Chart based on list pricing.



run it.

The power of one of HP's fastest PA-RISC microprocessors. Delivers superior on-line transaction and website performance versus other entry priced systems, with plenty of headroom for growth. Perfect for upgrading those older HP 3000 Servers.

Large memory capacity for handling complex data management and e-commerce applications.

Large bus bandwidth provides a well balanced architecture without bottlenecks. I/O intensive data management and e-commerce applications will not become "I/O bound".

Advanced I/O technology built in for easy, ready-to-go networking and data accessibility.

Built in floating point processor accelerates compute-intensive application performance.

Authorized control of your servers over the Internet from any location worldwide.

With an unlimited user license you never have to worry whether you will have too many users for your server.

Perfect as an application test machine.

Expert integration and configuration for a quick, worry-free start.



trust it.

Increased reliability and network stability even under heavy loads.

Internal high-uptime storage to protect critical data.

The HP e3000 family offers you among its solutions, the HP WebWise MPE/iX Secure Web Server which ensures data protection against eavesdropping, tampering and forgery as you bring your business into the e-services and Internet world.

MPE/iX 7.0 features numerous tools and services to keep your mission-critical applications running, your data safe, and fast recovery assured if any problems arise.

The HP e3000 family is committed to deliver innovative technologies such as Java™ to improve its performance and reliability in running real-world, mission-critical applications for businesses like yours.

Data is the heart of your business. MPE/iX 7.0 is bundled with one of the best database products for information management: HP IMAGE/SQL.

With HP Predictive Support Software (requires MPE/iX Release 7.0 Express 1), system uptime is increased by proactively identifying possible processor, memory or mass storage problems before they take a system down.

Reduce risk with HP's proactive and reactive worldwide support services.



evolve it.

Flexible, cost-effective growth path for maximum investment protection.

Superior rackability that optimizes use of floor space, expandability and delivers unprecedented performance density.

Shared hardware development across HP assures low cost investments to extend the A-Class feature set.

High degree of interoperability with the Internet, Microsoft® Windows NT®, UNIX® and other operating environments.

An operating system for you to grow and evolve with.

With integrated IMAGE/SQL, costly third party data bases are not required. This high performance database handles your evolving business needs.

With built in Web Server software, you decide when you want to reengineer your business models. You can make authorized use of the worldwide Internet for customer or employee access to information, fast and easy.

table 1. features/specifications

	A400-100-110	A500-100-140 / A500-200-140¹
Product numbers	A6398B	A6399B
Microprocessor supported	PA-8500 @ 110 MHz	PA-8500 @ 140 MHz
Number of processors	1 CPU	1 to 2 ¹ CPUs
Operating system support	MPE/iX Release 7.0	MPE/iX Release 7.0 ¹
Relative performance	2.2	3.2 / 5.4 ¹
Memory	128MB	512MB
	2GB	8GB ²
On-chip cache (data/instr)/CPU	1 MB/512 KB	1 MB/512 KB
I/O slots	2	4
I/O devices	2	2
	72 GB	72 GB
	37 TB ³	37 TB ³
	32	32
	8	8
	250	250
	3300	3300
Standard I/O features	Ultra2 LVD SCSI port, SE SCSI port, 10/100Base-TX LAN, 3x RS-232 ports for console and UPS connections, optional integrated Web Console	
Supported I/O connectivity	Ultra2 SE/LVD SCSI (single port); ULTRA HVD SCSI (single port); 10/100Base-TX LAN; 802.5 FDDI via a switch; X.25 via a DTC; SNA and NS pt.-to-pt. via 8 channel ACC card	

¹Multiprocessor support requires MPE/iX Release 7.0 Express 1.

²Maximum memory size is limited to 2 GB with Release 7.0. Release 7.0 Express 1 will support maximum memory sizes of 8 GB.

³Maximum external disk capacity is limited to 12 TB with Release 7.0. Release 7.0 Express 1 will support maximum disk capacities of 37 TB.

table 2. environmental specifications

Electromagnetic interference	Complies with FCC Rules and Regulations, part 15, as a Class A digital device. Manufacturer's Declaration to EN55022 Level A, VCCI Registered, Class I, Korea RLL
Safety	UL Listed, CSA Certified, TUV GS Mark, compliant with EN 60950 and EN 41003
AC input power	100-127V, 200V-240V; 50/60Hz
Maximum current requirements	1.00 Amps at 100V; 0.43 Amps at 220V
Maximum power dissipation	150 Watts
Physical dimensions	Height: 89 mm (3.5 in)/2 EIA units; Width: 710 mm (28 in); Depth: 482 mm (19 in); Weight: 20 kg (45 lbs)
Operating temperature	+5° to 35° C (41° to 95° F)
Non-operating temperature	-40° to 65° C (-40° to 149° F)
Maximum rate of temperature change	20°C/hour
Operating relative humidity	15% to 80% at 5° to 40° C non-condensing, maximum wet bulb = 26° C
Non-operating relative humidity	5% to 90% at 65° C, non-condensing
Operating altitude	To 3.0 km (10,000 ft) above sea level
Non-operating altitude	To 4.5 km (15,000 ft) above sea level



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