



## hp server rp8400 data sheet

Ideal for enterprises, service providers, and global e-marketplace leaders with intensive computing needs, the HP Server rp8400 represents a quantum leap in midrange computing. The HP rp8400 delivers high-end server technology in a midrange form factor, resulting in a server that offers the scalability, flexibility, and lasting value that new business fundamentals demand.

### **built to scale**

Data center managers will appreciate the HP rp8400's unprecedented expandability, performance, and high availability. Scalable up to 16 processors, the HP rp8400 breaks new barriers in midrange performance. And with unmatched technologies, the HP rp8400 delivers industry-leading midrange high availability that virtually eliminates architecture and application vulnerability. Furthermore, the HP rp8400 is built on HP-UX 11i—the best enterprise operating environment (OE) for UNIX® and Itanium™ servers.

### **enabling transformation**

IT managers will welcome the flexibility and efficiency of the HP rp8400. Its best-in-class dynamic partitioning and workload management solutions allow managers to adjust computing resources to workload requirements, and its optimized form factor delivers industry-leading performance density along with the lowest operational costs in the midrange market.

### **power of always**

HP Server rp8400 will appeal to CIOs looking for the best return on their technology investment. HP delivers long-lasting value through easy in-box upgrades, unmatched services and support, and the industry's most innovative financing solutions, such as HP's ground-breaking utility pricing program. With utility pricing, you can choose the right financial vehicle to meet your unique business needs, selecting from pay-per-use, instant capacity on demand, and pay-per-forecast solutions.





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### key features and benefits

#### features

- leading midrange performance with industry-leading PA-8700 processors and high-end cell-based technology
- industry-leading high-availability features
- enterprise-proven HP-UX 11i operating environments
- industry's most complete partitioning continuum with hardware and virtual partitions as well as goal-based workload management (WLM)
- industry's highest performance density (with two servers per industry-standard two-meter rack)
- innovative utility pricing (pay-per-use, instant capacity on demand, and pay-per-forecast)
- unprecedented investment protection through in-box upgrades
- innovative financing programs
- industry-leading services and support to build your always-on infrastructure

#### benefits

- easily handles the most demanding business workloads
- unprecedented reliability to protect your business from unforgiving interruptions
- superior performance, rock-solid security, and unmatched functionality demanded in mission-critical environments
- maximum utilization of your computing resources and improved return on investment
- reduced operational costs
- enables infrastructure alignment cost with customer business cycles
- keeps your investment on the leading edge of midrange computing technology
- reduced time to solution deployment; proactive and reactive support services ensure availability and reliability of IT environments

### technical specifications

#### performance/scalability/flexibility

- 2–16 650MHz or 750MHz PA-8700 CPUs
- 1–4 cell boards (each cell: 2 or 4 CPUs and 2 to 16GB memory)
- 2 hardware partitions (nPars) and 16 virtual partitions (vPars)
- HP-UX workload management (WLM) software
- 2 to 64GB memory capacity
- 16 PCI hot-plug I/O card slots
- PCI doorbell functionality on PCI I/O card slots\*
- future upgrade to PCI-X
- 32GB/s crossbar bandwidth and 8.5GB/s aggregate PCI bus bandwidth
- rack or standalone server solutions
- 4 internal hot-plug disk bays and 2 internal removable media bays (DVD or DAT)
- 6 hot-swap, redundant power supplies
- 2 or 4 power cords (2 minimum, 4 for use with 2 grids)
- hot-swap, redundant cooling fans
- enterprise HP-UX 11i operating environments

\*available in 1H 2002



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### availability

- dynamic CPU and memory allocation/deallocation
- memory chip-sparing technology
- hot-plug cell boards
- error checking and correction (ECC) on all CPU, cache, memory, and I/O paths
- online addition and replacement of PCI I/O cards
- redundant power inputs for dual grid connections
- redundant core I/Os
- N+1 hot-swappable fans and power supplies
- hot-spare instant capacity on demand CPU functionality
- hot-plug disk drives
- hot-plug DVD and DAT
- mc/serviceguard and mc/lockmanager cluster software
- hardware partitions (nPars) with failover functionality
- integration of business applications with mc/serviceguard
- SAP R/3 somersault technology
- console failover functionality\*
- advanced monitoring event monitoring system (EMS) functionality
- mission-critical services and support

### connectivity

- core I/O: 10/100/1000Base-T LAN, Ultra2 SCSI, management LAN, three serial ports
- add-in cards: ATM, Token Ring, FDDI, 1000Base-SX, 1000Base-T, 10/100Base-T, Ultra2, Ultra3, FW, Fibre Channel, terminal MUX, hp speedcard software, X.25, Hyperfabric

### manageability

- dual built-in service processors
- partition manager
- integrated hp webqos peak
- integrated hp servicecontrol manager
- HP-UX workload management (WLM) software
- hp OpenView tools suite

### investment protection and flexibility

- utility pricing (pay-per-use, instant capacity on demand, and pay-per-forecast)
- chassis designed for several future generations of PA-RISC and Itanium processors
- ability to mix processor speeds within a system chassis\*
- interchangeable components with other HP servers and storage solutions
- future platform of choice support
- built-in unlimited license for Internet HP-UX 11i operating environment

### support and services

- analysis, design, and implementation of infrastructure, IT processes, and IT organization
- educational services
- smart set integration services
- implementation services
- proactive and reactive support services
- outsourcing and business recovery services

\*available in 1H 2002



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**height**

**physical specifications**

racked chassis: 17 EIA units/29.75 in/75.56 cm

standalone chassis: 32.8 in/83.31 cm

**width**

19 in/48.26 cm

**depth**

30 in/76.20 cm

**maximum weight**

354 lb/160.6 kg

**operating temperature**

+5 to +35° C (30° C @ 10,000 feet)

**non-operating temperature**

-40 to +70° C

**max rate of temperature change**

20° C/hr

**operating relative humidity**

15–80%

**max operating altitude**

3000 m

**max non-operating altitude**

4500 m

**environment**

**typical power dissipation**

2,920 VA

**maximum power dissipation**

5,045 VA

**safety**

UL listed, CUL certified, TÜV GS Mark, compliant with EN 60950

**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

**power line LF emissions**

Europe: EN 61000-3-2; Europe: EN 61000-3-3

**product number**

A6093A

**for more information**

For more information about the HP Server rp8400, contact any of our worldwide sales offices or visit our Web sites at: [www.hp.com/go/servers](http://www.hp.com/go/servers) or [www.hp.com/go/rp8400](http://www.hp.com/go/rp8400).

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