

# hp server | rp7405 | data sheet

## 05 series servers

Today's business environment is changing in a fundamental way. Despite significant competitive pressures, businesses must increasingly stretch their IT budgets further. For many IT managers, this has created a challenging situation—whether to purchase systems that offer enterprise-level availability and functionality or more economical systems that sacrifice functionality and reliability. Regardless of the decision, many businesses find themselves making an uncomfortable trade-off between functionality and price. As the organization's reliance on its IT infrastructure increases, the importance of this trade-off decision can literally be a matter of business survival. Sound familiar?

The HP 05 series family of servers addresses this new business reality by offering your business the capability to deliver topline results without compromising on the bottom line. Designed for workgroup applications, front-end applications (such as caching, firewall, and workload balancing), and Web, application, and small database serving, 05 series systems offer the right performance while delivering the high availability and manageability features you've come to expect from HP servers.

### enterprise-class high availability

The HP 05 series of servers allow you to meet tight budgetary requirements and at the same time offer enterprise-class high availability that no one else can match. Standard high availability features on all 05 series servers include dynamic processor resilience, full ECC protection, and HP's Event Monitoring Service (EMS), which provides proactive fault avoidance, detection, and notification. Select 05 series models also offer dynamic hardware partitioning for full electrical isolation. The 05 series product family offers a wide range of high availability solutions to keep your business running, including industry-leading MC/Serviceguard.

### industry-leading functionality

The 05 series product lineup offers unparalleled opportunity to manage your server resources. Integrated features, such as HP Secure Web Console, give you the capability of full remote management, including centralized single-system and multi-system configuration. Other industry-leading capabilities include HP-UX Workload Manager (WLM), which allows various workloads to be managed to meet the business' service-level objectives. Select 05 series models offer dynamic virtual partitioning, which allows you to run multiple workloads on different instances of HP-UX, ensuring complete software fault isolation.

### easy ordering and deployment

Designed for ease of ordering and deployment, the 05 series product line offers a full range of standardized configurations that give you the flexibility to meet immediate business requirements. Pre-configured with high-powered PA-RISC processors and offering a choice of four pre-integrated and tested HP-UX 11i operating environments, 05 series servers can be put to work to rapidly address business demands. 05 series systems also offer industry-leading form factors that allow multiple servers to be racked in the data center and preserve valuable floor space, resulting in lower operating costs.



**just the  
right servers,  
no compromises**



**i n v e n t**



## enterprise-class availability



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### key features and benefits

#### features

##### enterprise-class availability

- integrated HA features such as memory chip-spare, dynamic processor resilience, and full ECC protection
- built-in fault management system with separate support processor and bus; HP's Event Monitoring Service (EMS), integrated with HP MC/Serviceguard; and multivendor enterprise management software products, including HP OpenView
- hot swap, redundant power supplies and fans

#### benefits

- reduces downtime by enabling critical system components to maintain continuous availability through advanced availability technologies
- provides superior system uptime through constant, proactive fault avoidance, detection, and notification; monitors power, cooling system hardware, processors, memory, HP-UX resources, and external storage
- improved customer availability based on ease of replacing and restoring common system components without system downtime

##### industry-leading functionality

- integrated HP Secure Web Console for Web-based management
- HP-UX Workload Manager (WLM) for goal-based workload management
- best-in-class partitioning features, including dynamic virtual partitioning\*

- provides complete single-system and multi-system administration capabilities, including a range of security features
- maximizes utilization of compute resources and improves return on investment
- provides software fault isolation for improved availability while providing a dynamic means to reallocate and manage workloads to improve utilization

##### easy ordering and deployment

- pre-configured 650 MHz PA-8700 processors with 2.25 MB on-chip cache
- pre-integrated, enterprise-proven HP-UX 11i operating environments
- industry's highest performance density, for up to 4 servers per rack

- handles demanding workloads and delivers the power required for departmental deployments
- delivers the world's best computing solution for enterprise users; preintegrated and tested operating environments simplify configuration and shorten deployment times
- outstanding performance density and optimal use of floor space delivers greater revenue per square foot and reduces operating costs

\*available 2nd half 2002



industry-leading  
functionality



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## technical specifications

	rp7405 (2-way) (A7111A)	rp7405 (4-way) (A7112A)	rp7405 (8-way) (A7113A)
number of processors	2	4	8
total processor capacity	8	8	8
processor	PA-8700 (650 MHz)	PA-8700 (650 MHz)	PA-8700 (650 MHz)
system boards	1 cell board	2 cell boards	2 cell boards
memory	4 GB	8 GB	16 GB
total memory capacity	64 GB*	64 GB*	64 GB*
internal disks	146 GB (2 x 73 GB)	292 GB (4 x 73 GB)	292 GB (4 x 73 GB)
total internal disk capacity	292 GB	292 GB	292 GB
internal DVD	1	1	1
total I/O slots	7	14	14
integrated core I/Os	1	2	2
core I/O connectivity	10/100/1000Base-T LAN, Ultra3 SCSI, 100Base-T management LAN, three RS-232 serial ports	Two 10/100/1000Base-T LAN, two Ultra3 SCSI, two 100Base-T management LAN, six RS-232 serial ports	Two 10/100/1000Base-T LAN, two Ultra3 SCSI, two 100Base-T management LAN, six RS-232 serial ports
supported OS versions	HP-UX 11i	HP-UX 11i	HP-UX 11i

\*available 4Q 2002

## availability technologies

- memory chip-sparing
- dynamic CPU and memory allocation/deallocation
- 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
- N+1 hot-swappable fans
- 2N hot-swappable power supplies
- hot-plug disk drives and DVD
- MC/Serviceguard and MC/Lockmanager cluster software
- hardware partitions (nPars) with failover functionality
- advanced monitoring event monitoring system (EMS) functionality

## manageability technologies

- dual built-in service processors
- partition manager to manage vPars and nPars
- HP WebQoS peak
- HP Servicecontrol Manager
- HP-UX Workload Manager (WLM) software





**easy ordering  
and deployment**



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### physical specifications

<b>height</b>	Racked chassis: 10 EIA units/17.5 in/44.45 cm
<b>width</b>	19 in/48.26 cm
<b>depth</b>	30 in/76.20 cm
<b>weight</b>	220 lb/99.8 kg
<b>operating temperature</b>	41 to 95° F (+5 to +35° C) (30° C @ 10,000 feet)
<b>non-operating temperature</b>	-40 to +158° F (-40 to +70° C)
<b>max rate of temperature change</b>	20° C/hr
<b>operating relative humidity</b>	15–80%
<b>max operating altitude</b>	3,000 m
<b>max non-operating altitude</b>	4,500 m
<b>typical power dissipation</b>	1,700 VA
<b>maximum power dissipation</b>	3,000 VA
<b>safety</b>	CSAUS certified, TÜV, compliant with EN 60950
<b>electromagnetic interference</b>	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
<b>power line LF emissions</b>	Europe: EN 61000-3-2, EN 61000-3-3
<b>product number</b>	A7111A (2-way), A7112A (4-way), and A7713A (8-way)
<b>regulatory model</b>	RSVLA-0102
<b>for more information</b>	For more information about the HP Server rp7405, contact any of our worldwide sales offices or visit our Web sites at: <a href="http://www.hp.com/go/rp7405">www.hp.com/go/rp7405</a> or <a href="http://www.hp.com/go/05series">www.hp.com/go/05series</a>

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08/02

5981-2962EN