



hp rack-optimized
rp5430 and rp5470
servers
entry-level UNIX® servers



hp servers
product brief

hp rack-optimized servers can help you be always on, always there, always connected hp servers rp5430 and rp5470: smart, simple, stress-free



hp servers rp5430
and rp5470

In today's economy, whether you're managing your own IT infrastructure or hosting someone else's, you have to operate with a faster time-to-solution, within budgetary constraints, and with the highest standards for customer service and operational efficiency.

To create and run an infrastructure for an always-on business, you need a computing platform that will support the way you—and your customers—do business. The HP Servers rp5430 and rp5470 give your business the fastest—and most reliable—means of succeeding in this new business environment.

The HP Servers rp5430 and rp5470 deliver the proven performance, scalability, and high-availability capabilities of UNIX—without high maintenance requirements and costs. And they give you plenty of room to grow. You can start at a low-price entry point and scale up to the leading 4-way UNIX performance—in the same rack-optimized form

factor, without penalty. And with its industry-leading solution partners, HP has developed business solutions surrounding these servers that are tested, easy to deploy, and easy to manage.

With HP Servers rp5430 and rp5470, owning and operating a UNIX server is smart, simple, and stress-free.

smart

HP Servers rp5430 and rp5470 offer leading entry-level server performance, dynamic scalability, and unmatched investment protection—all in a rack-optimized package—making them the smart choice for the most demanding applications.

leading performance— scalable functionality

- industry-leading OLTP performance
- massive bandwidth for I/O-intensive applications

- 7U-height and packed with CPUs, memory, and I/O, plus the ability to scale subsystems without compromise
- rack-optimized to make the best use of valuable data-center floorspace

unparalleled investment protection

- industry's only in-box upgrade from 2-way to 4-way UNIX computing
- built-in growth path to the HP Server rx5670, featuring Intel® Itanium® 2 processors

proven solutions for business-critical computing

simple

hp makes IT easy

With HP Servers rp5430 and rp5470, HP offers a unique combination of solutions designed to help you get started quickly and manage your IT environment effectively.

hp-ux: robust, proven enterprise operating environment for mission-critical applications

- industry-leading performance, scalability, availability, manageability, and security
- pre-packaged, integrated, and production-ready operating environments
- industry-leading Windows® and Linux interoperability
- centralized software updates that are timely, simple, and efficient
- powerful alliances with industry-leading software vendors and systems integrators to deliver robust solutions from e-commerce to enterprise resource planning (ERP) and beyond

leading-edge management capabilities with hp-ux virtual partitions and hp-ux workload manager

- system resource optimization enabling multiple workloads to run simultaneously on the same server, each with their own instance of HP-UX
- improved security and server availability through complete software and operating system isolation
- HP-UX Virtual Partitions integrate with HP-UX Workload Manager for the most efficient resource distribution across partitions, in a single server
- base offering complementary with HP-UX 11i for your HP Server rp5470

integrated management capabilities

- HP Servicecontrol Manager and integrated HP Secure Web Console capability for full remote management, including centralized configuration of multiple servers

flexible financing

- operating leases with a variety of attractive terms
- the Tech Refresh program for cost-effective upgrades to stay on the leading edge of new technology
- bundled Solution Finance program to consolidate and simplify financing arrangements

instant capacity on demand for your hp server rp5470

iCOD

- instant activation of incremental CPU power when you need it
- pay only for the processing power you use

temporary capacity for iCOD

- temporary activation of incremental CPU power for a limited period
- ideal for short-term, predictable processing demands

stress-free

make your business your focus

The HP Servers rp5430 and rp5470 handle the demands of users efficiently and reliably—so you can concentrate on running business, not managing your IT resources.

high availability for continuous operations

- a rich set of in-box high-availability features
- affordable high-availability clustering solutions based on industry-leading HP MC/Serviceguard
- self-healing capabilities, a first for entry-level servers—proactively avoid faults to improve uptime
- a critical building block for your always-on e-business needs

total solution support

- options ranging from Web-based services to the industry's only 6-hour call-to-repair commitment
- "one-stop" solution support delivered with partners such as Cisco, Oracle®, SAP, i2, Inktomi, and many more

best UNIX server family—top to bottom

The low-cost entry point to the two-way HP Server rp5430 through the more scalable HP Server rp5470 are part of the powerful HP UNIX server line—servers that set the standards for business-critical computing and total cost of ownership. Simple in-chassis upgrades let you move up the line, as your business grows. HP UNIX servers provide the hardware foundation for an Internet infrastructure that is always on. Combining leading technology with proactive and reactive services, HP offers complete, end-to-end solutions that include hardware, software, applications, services, support, consulting, and an extensive portfolio of experienced partners, so you can get to market quickly with a single source of expertise. The HP UNIX server family is robust from the top to bottom—from the high-end HP Superdome; through the HP Servers rp8400 and rp7410, the midrange performance and price/performance leaders; and to the scalable entry-level HP Servers rp5430 and rp5470. Rounding out the family are the hyper-dense HP rp2400 series servers for Internet applications and branch offices.

the right server for today's applications

ERP (supply-chain management)

High availability, leading-edge manageability, and scalable performance support demanding end-to-end enterprise applications.

broadband

The combination of leading performance, I/O throughput, and capacity and high availability with end-to-end solutions delivers more powerful, reliable broadband services.

internet infrastructure

Highly scalable, reliable, and manageable Web server, caching server, load balancing, e-commerce server, firewalls, or mail server.

e-commerce

Leading performance and I/O bandwidth, in-box scalability, rack-optimized form factor (five per standard 2-meter rack), high availability, and Internet management features.

technical computing

Leading performance and throughput, N+1 redundant components, extensive memory capabilities, and clustering solutions to meet the demands of computation, NFS file serving and product data management, and Web hosting.

hp servers rp5430 and rp5470 features and benefits at-a-glance

features	benefits
smart	
1–4 (rp5470) or 1–2 (rp5430) 875MHz PA-8700+ CPUs with 2.25 MB on-chip cache per CPU or 750MHz PA-8700 CPUs with 2.25 MB on-chip cache per CPU	Superior performance over comparable systems, with plenty of headroom for growth
Up to 16 GB (rp5470) or up to 8 GB (rp5430) SDRAM memory with advanced ECC protection	Fast and reliable processing power for frequently accessed data
Cost-optimized version of midrange HP Server rp7400 chipset	Delivers robust reliability, manageability, and architectural features in a low-cost package
Up to 10 (rp5470) or 6 (rp5430) PCI I/O slots with 3.2 GB/s (rp5470) or 2.3 GB/s (rp5430) I/O bandwidth	Easily handles I/O-intensive applications and allows the system to scale I/O, CPUs, and memory without compromise
Core I/O, including 10/100Base-T LAN with auto speed-sensing, a second 10/100Base-T support LAN, Ultra2 LVD SCSI, and RS-232	Provides easy, ready-to-go networking capabilities
Up to 4 internal 36 GB, 73 GB, or 146 GB Ultra320 SCSI hot-plug high-uptime disks	Store critical data with massive internal capacity
1 internal DVD or DAT drive	Protects critical data
7U chassis with up to 5 servers per standard 2-meter rack; also available in standalone (pedestal) configuration	Optimizes use of floor space and delivers high-performance density in a racked configuration
Easy in-box upgrades from the rp5430 to the rp5470	Architectural scalability ensures these servers can grow with the business, maximizing flexibility and investment protection
Support of Intel Itanium Processor Family as well as PA-RISC processors	Provides investment protection through dual growth paths
simple	
Built-in unlimited user license for proven 64-bit HP-UX 11i and 11.0	Proven, enterprise UNIX operating system for mission-critical applications
HP Virtual Partitioning for the rp5470	Maximizes usage of computing resources
Integrated HP Secure Web Console and Servicecontrol Manager for full local, Web, and remote control of servers	Provide complete single-system and multisystem administration capabilities, including a range of security features, from any browser-based PC
Flexible financing programs	Make initial ownership and modular growth easy and affordable
Instant capacity on demand (iCOD); temporary capacity for iCOD	Immediate access to CPU power when you need it, either permanently or temporarily
HP global deployment and partner integration services	Offer guaranteed error-free solution deployment to reduce implementation time and cost
HP On-site Solution consolidated manufacturing, streamlined product assembly and testing, and state-of-the-art integration	Ensure superior quality and faster delivery
stress-free	
Error-correcting cache, parity checking on all buses, memory scrubbing and page deallocation, dynamic processor resilience, and de-allocation of application processes	Built-in high-availability features deliver superior levels of <ul style="list-style-type: none"> • error correction, • error containment, • data protection, and • serviceability to help maximize uptime for business-critical workgroups and applications
Dual Ultra2 SCSI buses and controllers for mirrored storage	
Hot-swap, redundant power supplies and fans; redundant, hot-plug PCI; Ultra2 SCSI hot-plug disks	
Integrated Event Monitoring Service (EMS)	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
Built-in fault management system with separate support processor and bus	
Integrated with HP MC/Serviceguard, HP Tuptools for Servers, and enterprise management software such as HP OpenView and CA Unicenter	
Pre-tested and pre-integrated workgroup clustering solutions based on HP MC/Serviceguard	Deliver complete, ready-to-go solutions for clustered high availability that eliminate all single points of failure, at an affordable price
3-year on-site service warranty and HP services and support options ranging from Web-based support to mission-critical, 6-hour Call-to-Repair commitment; includes full solution support for hardware and software	Reduce risk through worldwide support for business-critical computing; provide “one-stop shopping” for support through partnerships with Cisco, Oracle, SAP, BroadVision, Inktomi, and others

stay ahead of the curve

configuration options	hp server rp5430	hp server rp5470
processor	875MHz PA-8700+ or 750MHz PA-8700	875MHz PA-8700+ or 750MHz PA-8700
SMP configuration	1 to 2 CPUs	1 to 4 CPUs
supported OS versions	HP-UX 11i PA-8700+ HP-UX 11.0, 11i PA-8700	HP-UX 11i PA-8700+ HP-UX 11.0, 11i PA-8700
minimum/maximum memory	256 MB/8 GB	256 MB/16 GB
on-chip cache (data/instr)	1.5 MB/750 KB	1.5 MB/750 KB
total I/O slots	6	10
internal removable media bays	1	1
maximum internal disk capacity	584 GB (4 disk bays)	584 GB (4 disk bays)
standard I/O features	Ultra2 SCSI, 100Base-T LAN, 3 RS-232 ports, 100Base-T support LAN, and Web-based console	
supported I/O connectivity	Ultra2 SCSI RAID, Ultra2 SCSI LVD (single- and dual-port), FWD SCSI (single- and dual-port), Fibre Channel, Gigabit Ethernet, 100Base-TX (single- and quad-port), 100Base-FX, ATM 155 Mb/s (MMF, UTP-5), ATM 622 Mb/s (MMF), FDDI dual-attach LAN, Token Ring 100 Mb/s; X.25/FR/SDLC (dual-port), multiplexer (8- and 16-port)	

environmental specifications

electromagnetic interference	Complies with FCC Rules and Regulations, part 15, as a Class A digital device; Manufacturer's Declaration to EN 55022 Level A; VCCI Registered, Class I; Korea RLL
AC input power	100–240V 50/60Hz
maximum current requirements	13.8A at 110V
maximum power dissipation	1283 watts
physical dimensions	Depth: 774 mm (30.5 in) Width: 482 mm (19.0 in) Height: 368 mm (14.5 in)/7 EIA units Weight: 68 kg (150 lb)
operating temperature	+5° to 35°C (41° to 95°F)
nonoperating temperature	–40° to 65°C (–40° to 149°F)
maximum rate of temperature change	20°C/hour
operating relative humidity	15% to 80%, noncondensing, max. wet bulb @ 26°C
nonoperating relative humidity	5% to 90%, noncondensing
operating altitude	To 3.0 km (10,000 ft) above sea level
nonoperating altitude	To 4.5 km (15,000 ft) above sea level
compliance model number	RSVL - 0105-A

for more information

Contact any of our worldwide sales offices or HP Channel Partners (in the U.S. call 1-800-637-7740) or visit the HP servers Web site at

www.hp.com/go/servers or
www.hp.com/go/rp5430 or
www.hp.com/go/rp5470

HP product information and technical documentation are available online. In addition, configuration tools and pricing information allow registered users to place orders online.

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