



hp server rp7410 data sheet

Today's businesses must focus on business fundamentals while facing a rapidly changing environment. New business imperatives demand that information technology (IT) solutions be dependable enough to run the business on, adaptable enough to keep pace with changing business requirements, and efficient enough to maximize business profitability. The HP Server rp7410 has been designed to address these business imperatives. The rp7410 combines rock-solid dependability with comprehensive management and extremely low operational costs. This reliable, high-performance midrange server has the ability to get the job done on time and on budget while improving efficiency and delivering better return on investment (ROI). And the rp7410 actually minimizes business risk by ensuring IT resources can meet fast-changing requirements, leading to greater business profitability today and tomorrow.

the midrange server businesses can depend on

The HP Server rp7410 provides an extremely robust computing environment to ensure dependable operation. With up to eight PA-RISC processors, the rp7410 can handle demanding workloads. The rp7410 also offers the most comprehensive midrange high availability feature set in the market, including preventative design, proactive automatic monitoring and fault correction, and redundant components to avoid system failure. In fact, the rp7410 is the only 8-way server to be fully-certified by Uptime Institute* for fault-tolerant power compliance!

The rp7410's superior hardware is complemented by its industry-leading HP-UX 11i operating system—the only enterprise UNIX® OS that's available with the Intel® Itanium™ Processor Family (IPF). With a choice of four pre-integrated and tested operating environments, HP-UX 11i allows for quick and effortless deployment. Running HP-UX 11i on the rp7410 also provides integrated security features and up to eight virtual partitions. Over 1,600 applications from leading partners are available on HP-UX 11i. And of course, the rp7410 and HP-UX 11i are from HP, the proven leader in midrange computing solutions since 1997.

the midrange server to adapt to changing business requirements

The adaptable rp7410 allows businesses to evolve their data center or IT environment intelligently. With best-in-class provisioning and partitioning capabilities, the rp7410 allows businesses to adjust computing resources to workload requirements. The rp7410 is ready to deliver long-lasting value, with easy in-box upgrade paths to future PA-RISC and Itanium Processor Family (IPF) technologies, the 16-way HP Server rp8400, and a program to migrate existing rp7400 (N-class) and competitive servers to the rp7410. And HP services can help your business quickly adjust to the fast-changing needs of today's marketplace.

*More information can be found at www.uptimeinstitute.org



dependability



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the midrange server to maximize data center efficiency

The rp7410 provides unparalleled levels of operational efficiency in the data center. Its form factor allows four servers to fit in a standard two-meter rack, packing the maximum performance into every square meter of valuable data center space and allowing unsurpassed consolidation capabilities. Innovative utility computing solutions such as pay-per-use, pay-per-forecast, and instant capacity on demand (iCOD) reduce upfront investment and allow businesses to better manage their capital.

Pre-integrated administration tools such as cluster management, together with added authentication and encryption features, provide easier management, more security, and higher quality of service. As a result, the rp7410 has the industry's lowest operational costs! The rp7410 has the dependability, adaptability, and efficiency businesses demand to serve as the critical foundation of the data center infrastructure.

key features and benefits

features

dependable

- leading midrange performance, with up to eight industry-leading PA-8700 or PA-8700+ processors and high-end cell-based technology
- richest midrange high-availability features set
- four enterprise-proven HP-UX 11i operating environments

adaptable

- industry's most complete partitioning continuum, with up to two hardware partitions and eight virtual partitions*, as well as goal-based workload management (WLM)
- unprecedented investment protection through in-box upgrades and upgrades to hp server rp8400
- industry-leading services and proactive and reactive support to build the always-on infrastructure

efficient

- industry-best performance density and consolidation capabilities (with four servers per industry-standard two-meter rack)
- innovative utility pricing (pay-per-use, pay-per-forecast, and instant capacity on demand)
- attractive financing programs

benefits

- easily handles the most demanding business workloads
- provide unprecedented reliability to protect your business from unforgiving interruptions
- deliver the superior performance, rock-solid security, and unmatched functionality demanded in all types of environments
- maximizes utilization of computing resources
- improves return on investment and keeps your environment on the leading edge of midrange computing technology
- provide trusted expertise to maximize availability of IT environments
- reduces operational costs
- enables alignment of infrastructure costs with customer business cycles
- reduce upfront investment and meet budget requirements

*not available at first release

adaptability



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technical specifications



performance/scalability/flexibility

- 2 to 8 PA-RISC CPUs
 - PA-8700 (750 MHz)
 - PA-8700+ (875 MHz)
- 1 to 2 cell boards (each cell supports: 2 or 4 CPUs and 1GB to 16GB memory)
- 1 to 64GB of main memory*
- up to 2 hardware partitions (nPars)
- up to 8 virtual partitions (vPars)*
- hp-ux workload management (WLM) software
- 15 PCI hot-plug I/O card slots and 2 core I/Os
- 8.5GB/s aggregate PCI slot bandwidth
- 4 internal hot-plug disk bays and 1 internal removable media bay (DVD or DAT)
- 2 hot-swap, redundant power supplies
- 2 or 4 power cords (2 minimum, 4 for use with 2 electrical grids)
- hot-swap, redundant cooling fans
- enterprise-proven HP-UX 11i operating environments

availability

- memory chip-sparing technology
- dynamic CPU and memory allocation/deallocation
- hot-plug cell boards
- hot-spare CPU with instant capacity on demand (iCOD)
- 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, 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
- advanced monitoring event monitoring system (EMS) functionality
- mission-critical services and support

connectivity

- core I/O: 10/100/1000Base-T LAN, Ultra3 SCSI, 100Base-T management LAN, three RS-232 serial ports
- add-in cards: ATM, Token Ring, FDDI, 1000Base-SX, 1000Base-T, 10/100Base-T, Ultra2, Ultra3, FW SCSI, Fibre Channel, terminal MUX, hp speedcard software, X.25, Hyperfabric

*available Q4 2002

manageability

- dual built-in service processors
- partition manager to manage vPars and nPars
- integrated hp webQoS peak
- integrated hp servicecontrol manager
- hp-ux workload management (WLM) software

investment protection

- in-box upgrades to future generations of PA-RISC and Itanium processors
- interchangeable components with 16-way hp server rp8400
- system chassis supports multiple processor speeds in the same chassis
- utility pricing (pay-per-use, and instant capacity on demand, pay-per-forecast)
- temporary capacity on demand
- built-in unlimited license for Internet HP-UX 11i operating environment
- future platform of choice support

comprehensive services

- consulting
- porting and migration
- education and training
- installation, integration, and deployment
- hardware and software support
- proactive planning and technical assistance
- mission critical services
- comprehensive and selective outsourcing
- business recovery services
- financing



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physical specifications

height

racked chassis: 10 EIA units/17.5 in/44.45 cm
standalone chassis: 19.63 in/48.86 cm

width

19 in/48.26 cm

depth

30 in/76.20 cm

weight

220 lb/99.8 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

3,000 m

max non-operating altitude

4,500 m

typical power dissipation

1,700VA

maximum power dissipation

3,000VA

safety

CSAUS certified, TÜV, 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, EN 61000-3-3

product number

A6752A

regulatory model

RSVLA-0102

for more information

For more information about the HP Server rp7410, contact any of our worldwide sales offices or visit our Web sites at: www.hp.com/go/servers or www.hp.com/go/rp7410

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