



HP Integrity rx2800 i2 server

Data sheet

Boost mission-critical performance at a compelling value

The 2-socket HP Integrity rx2800 i2 server is the economical and easy way to boost performance and take advantage of your existing rackmount investments. With the latest Intel® Itanium® 9300 series quad-core processors, up to 192 GB DDR3 memory, and six I/O expansion slots the rx2800 i2 server can scale to run a range of mission-critical applications. Its built-in resiliency, advanced server management features, ENERGY STAR® certification, and 2U compute density make the rx2800 i2 server an ideal choice for smaller, more remote, or legacy rackmount environments.

Key features and benefits

Compact scaling enables you to run a range of mission-critical applications in a 2U footprint

Realize performance gains: The HP Integrity rx2800 i2 server gives you up to 9x¹ performance improvement over previous generation servers.

- Up to two quad-core Intel Itanium 9300 series processors provide eight cores of compute power
- 24 DIMM slots with up to 192 GB of DDR3 memory meet the requirements of your memory-intensive applications

- HP Smart Array P410i controller for increased performance
- Eight hot-plug small form factor SAS hard disk drives
- Six PCIe I/O slots; and four integrated 1GbE LAN

Rightsize the solution: You can customize the rx2800 i2 server for enhanced application speed and responsiveness, and to fit your budget. With a selection of processors, memory, storage, and I/O slots, which support both rack or desk-side configurations, you can address different project requirements.

Deliver improved resiliency: The HP Integrity rx2800 i2 server offers enhanced resiliency with built-in continuity and availability features to keep your business running without interruption:

- Mission-critical UNIX®—HP-UX 11i v3 enables availability, accelerates innovation, and simplifies operations

¹ Based on HP internal lab analysis



- Double-chip spare provides 17x² higher memory reliability than single-chip spare
- Intel Itanium processor 9300 series provides up to 2x² better reliability than industry volume processors through features such as Cache Safe Technologies and error-hardened latches
- Redundant hot-plug power and hot-swappable fans ease serviceability
- Trusted Platform Module (TPM) enables the generation of cryptographic keys to improve security

Earn a compelling return on your IT investment with out-of-the-box savings

Reduce total cost of ownership: Decrease your solution acquisition costs and operating system (OS) licensing fees so that you can earn greater return on your IT investment compared to previous generation servers:

- Up to 58 percent³ less acquisition costs—including hardware, OS, and support
- Up to 50 percent less OS licensing fees on a per core basis

Lower power usage and advance energy efficiency: Reduce power consumption with an ENERGY STAR compliant server. And advance your energy efficiency with HP Thermal Logic Technologies, which provides intelligent power and cooling. In addition, 1200 watt fully N+N redundant, high-efficiency power supplies support high line and low line power, as well as power metering and power capping.

Achieve operational excellence by simplifying data center administration

Control servers from anywhere, at anytime: The rx2800 i2 server's management tools enable remote management, ease serviceability, and improve overall IT staff productivity:

- Deploy servers quickly, proactively manage their health, and streamline power consumption with HP Insight Control server management software
- Perform everyday maintenance and deployment remotely with HP Integrated Lights-Out 3 (iLO 3)

- Deliver faster and easier server serviceability with System Insight Display—a slide-out system diagnostics display that makes it easy to find troubleshooting information at the front of the server

Consolidate your IT resources with HP Converged Infrastructure

The HP Integrity rx2800 i2 server is a part of the HP Converged Infrastructure portfolio, designed to increase efficiency, simplify operations, and deliver automated intelligence. This approach is delivered through a common architectural framework, based on a standard set of components and management tools. It enables data centers to respond quickly in an agile business environment.

HP Factory Express

HP Factory Express is designed to help you get a better return from your IT investment by providing customization, integration, and deployment services along with your storage and server purchases. It provides predictable, trusted, and tested IT solutions tailored to your business needs. We allow you to customize hardware to your exact specifications in the factory—helping to speed up deployment and free up internal resources. www.hp.com/go/factoryexpress

Customer technical training

In today's cost-conscious business environment, IT professionals, developers, consultants and users face an interesting challenge: how to keep up with the latest technologies and expand important skills while delivering profitable results on current projects. To help address this challenge, HP offers innovative training solutions that help keep you up-to-date on virtualization, server, storage, Insight Control, Citrix, Microsoft® and open source/Linux-related topics—while spending less time away from business-critical activities. www.hp.com/learn

² Based on HP internal lab analysis

³ Based on HP internal calculations

Technical specifications

HP Integrity rx2800 i2 server			
Processor	Intel Itanium 9340 4c Proc Kit	Intel Itanium 9320 4c Proc Kit	Intel Itanium 9310 2c Proc Kit
Processors/Cores per system	2/8	2/8	2/4
Module type	Quad-core processor	Quad-core processor	Dual-core processor
Clock speed with Turbo	1.6 GHz up to 1.73 GHz	1.33 GHz up to 1.46 GHz	1.6 GHz
Quick path interconnect	19.2 GB per second	19.2 GB per second	19.2 GB per second
L1 cache	32 KB per core	32 KB per core	32 KB per core
L2 cache (instruction)	512 KB per core	512 KB per core	512 KB per core
L2 cache (data)	256 KB per core	256 KB per core	256 KB per core
L3 cache	20 MB	16 MB	10 MB
Memory minimum/maximum	Minimum: 4 GB (2 x 2 GB) Maximum: 192 GB (24 x 8 GB)		
Memory type	Registered PC3-10600 DDR3 1,333 MHz ECC DIMMs		
Memory protection	Error checking and correcting (ECC) on memory and caches; double-chip spare (with 4 GB DIMMs)		
Internal hard drive bays	8 hot-plug SAS SFF 2.5 inch drives		
Maximum internal storage	4.8 TB		
Removable media	HP Slimline internal DVD ROM or DVD RW		
I/O slots	Maximum support of 6 I/O slots with two 3-slot PCIe riser cards		
Network adapter	Quad port 10/100/1000Base TX LAN		
Storage controller	HP P410i 3 Gb SAS Controller		
Internal RAID	RAID 0, RAID 1, RAID 5, RAID 6, and HBA mode		
Form factor	2U Rack or pedestal		
OS supported	HP-UX 11i v3 (choice of Base OE, Virtual Server OE, High Availability OE, Data Center OE) www.hp.com/go/hpux11i OpenVMS 8.4 (choice of Mission Critical, Enterprise, or Foundation Operating Environment) www.hp.com/go/openvms Microsoft Windows® Server 2008 R2 and Windows SQL Server 2008 R2 www.hp.com/go/integrity/windows		
Warranty	3/3/3 years (parts, labor, onsite)		
QuickSpecs URL	http://h18004.www1.hp.com/products/quickspecs/13770_div/13770_div.html		

Environmental specifications

Altitude	Operating: 3,000 m (10,000 ft.) maximum	Non-operating: 4,600 m (15,000 ft.) maximum
Temperature	Operating: 5° to 35°C (41° to 95°F)	Non-operating: -40° to 70°C (-40° to 158°F)
Relative humidity	Operating: 15% to 80% RH non-condensing	Storage: 10% to 90% RH at 65°C non-condensing
Acoustics	For rackmount: 7.0 Bels LwA	For Office Friendly version: 6.0 Bels LwA
Dimensions	Height: 482 mm (19 in.) Depth: 692 mm (27.25 in.) Width: 2U/89 mm (3.5 in.)	
Weight	Maximum 30 kg (66 lb)	
AC input power	100–240V 50/60 Hz	
Maximum input current	10A @ 100 Vms or 7A @ 200 Vms	
BTU rating	Maximum input power at High Line: 1200W, 2724 BTU/hour Maximum input power at Low Line: 800W Input power at Idle: 567W, 1936 BTU/hour	
Regulatory model number	RSVLA-RC01	

HP Financial Services

HP Financial Services provides innovative financing and financial asset management programs to help customers cost-effectively acquire, manage, and ultimately retire their HP solutions. For more information on these services, please visit:

www.hp.com/go/hpfinancialservices

HP Services

HP Technology Services—consultants and support experts to solve your most complex infrastructure problems. We help keep your business running, no matter what. Boost availability and avoid downtime, trust our expertise to optimize your HP solution.

Recommended Services

- 3-Year HP Proactive 24—Provides improved stability, availability, and operational effectiveness with an integrated hardware and software support service that combines industry-leading reactive technical assistance with proactive account services, giving your IT manage support from a team of service specialists.
- HP Startup Integrity 2-socket Server SVC—The HP Startup Integrity 2-socket Server Service provides hardware integration and racking as well as basic operating system configuration, logical volume layout, and RAID setting of internal server storage, along with configuration of server network settings.
- HP Proactive Select Service—Provides a flexible way to purchase HP best-in-class consultancy and technical services. You can buy Proactive Select Service Credits when you purchase your hardware and then use the credits over the next 12 months.

Related Services

- 3-Year HP Support Plus 24—For a higher return on your server and storage technology, our 3-year combined reactive support service delivers integrated onsite hardware/software support services available 24x7x365, including access to HP technical resources, 4-hour response onsite hardware support and software updates.
- HP Startup vPAR or Virtual Machine SVC—This VSE package service is intended for customers who only need help with a specific VSE software element and don't need all of the deliverables of the VSE package service.

Trust the Services professionals at HP; for more information, contact your HP sales representative or HP-authorized Channel Partner or, visit <http://www.hp.com/hps>

Upgrade your legacy Integrity system to HP Integrity rx2800 i2 server to boost performance in your mission-critical data center. To learn more, visit:

www.hp.com/go/integrity

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