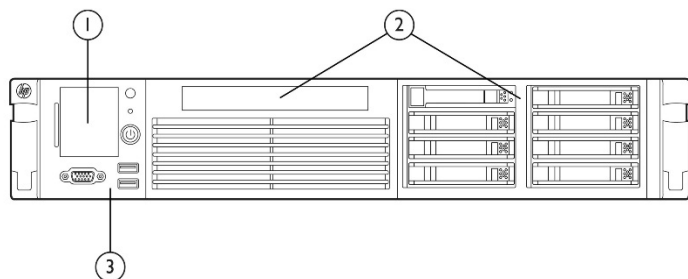


Overview

HPE Integrity rx2800 i6 Server

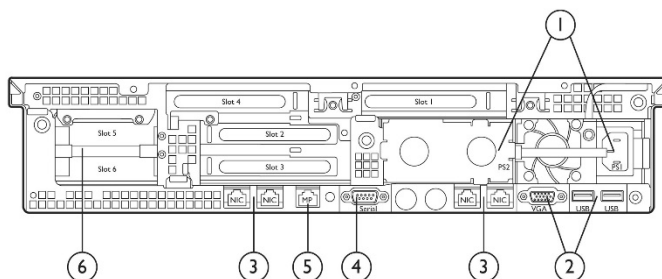
Is your branch office or data center server infrastructure challenged to support more users and applications within a constrained budget, smaller IT staff and limited space or energy footprint? Is downtime not an option, security paramount and IT dynamics mandate a flexible Converged Infrastructure (CI) that scales with your business?

HPE Integrity rx2800 i6 Server, delivers enterprise level security in a 2U two-socket UNIX® server. An ideal fit for branch offices and rack-mount server data centers supporting a range of mission-critical workloads. Customers achieve platform longevity and investment protection with advanced processors that deliver backward compatibility, while further enhancing performance with support of the HPE XP7 Storage and HPE 3PAR All Flash Arrays. Customers can also leverage the recent HP-UX innovations that include the Veritas 6.1 File system support, online HP-UX vPAR migration, Smart Quorum with HPE Serviceguard and HPE OpenStack support.



HPE Integrity rx2800 i6 Server: Front View

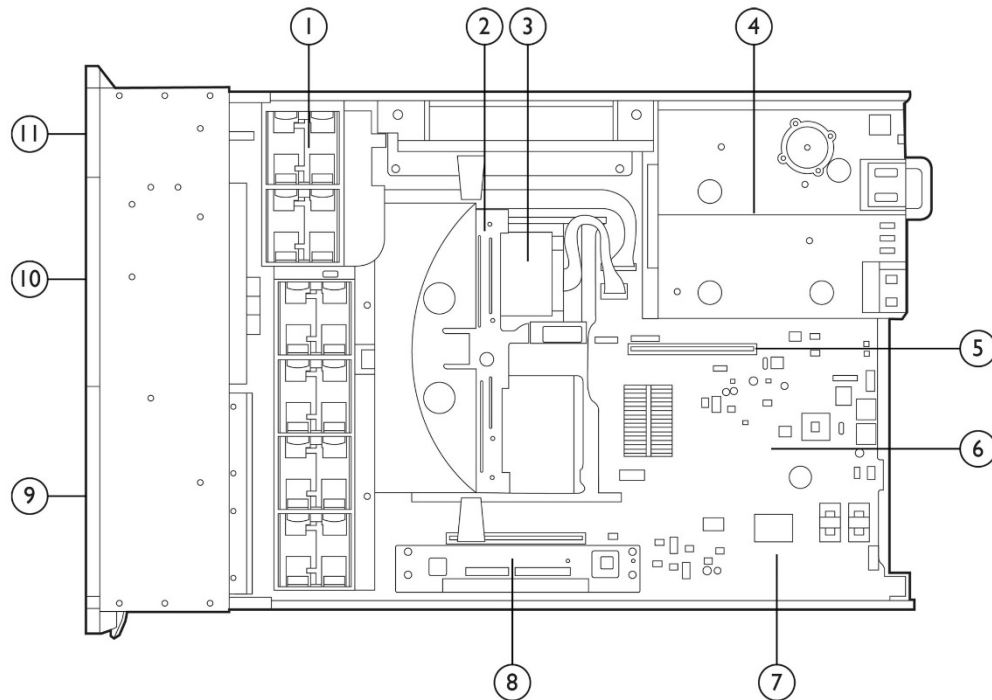
1. Systems Insight Display
2. 1 DVD & 8 SFF HDDs
3. Front Panel Console (KVM)



HPE Integrity rx2800 i6 Server: Rear View

1. 2x Power Supplies
2. Rear VGA & USB
3. 4x 1G LANs
4. RS232 port
5. iLO3 LAN
6. 6x I/O Slots

Overview



HPE Integrity rx2800 i6 Server: Inside View

- | | |
|---|---|
| 1. 6 system fans | 7. 2 low profile PCIe above p410i RAID controller |
| 2. Internal USB | 8. 24 DDR3 Memory Modules |
| 3. 2 Processor Sockets | 9. 8 Hard Disk Drive Slots |
| 4. 2 PSUs over ICH10, Gromit XE & RN50 video controller | 10. DVD-ROM or DVD+RW slot |
| 5. Chipset | 11. Front IO & Systems Insight Display |
| 6. 2 full-length PCIe slots over 2 half-length PCIe slots | |

What's New

- Supports Intel® Itanium® 9700 series processors
 - Supports the higher frequency and low voltage PC3L-12800 registered CAS 11 memory DIMMs
 - Supports the HPE XP7 Storage and HPE 3PAR All Flash Arrays for increased performance and lower TCO.
 - Supports HP-UX 2019 Operating Environment Update Release which has enhancements in virtualization, high availability, security, and private cloud management.
-



Standard Features

Models

HPE rx2800 i6 server comes in the following model: 2U Rack-Optimized Server (can be installed in tower form factor with pedestal kit)

Processors

Up to two (2) Intel Itanium 9700 processor series are supported:

- Intel Itanium 9760 8-core 2.66 GHz / 32 MB (L3) 170W
- Intel Itanium 9750 4-core 2.53 GHz / 32 MB (L3) 170W
- Intel Itanium 9740 8-core 2.13 GHz / 24 MB (L3) 170W
- Intel Itanium 9720 4-core 1.73 GHz / 20 MB (L3) 130W

Key features:

- On core 32KB Level 1 (L1) cache; 16KB Instruction/16KB Data
- On core Level 2 (L2) cache, 512KB Instruction/256KB Data
- Up to 32Mb Shared Last Level Cache (LLC); see details above for each processor
- Total of up to 54Mb on die cache per processor
- Single bit cache error correction
- 50 bit physical addressing
- 64 bit virtual addressing
- Integrated memory controllers and Scalable Memory Interconnect (SMI)
- Intel Instruction Replay Technology
- Enhanced instructions-level parallelism
- Enhanced Intel Hyper Threading, with Dual-Domain Multi-Threading support
- Intel Cache Safe Technology
- Residual error protection for floating point operations
- Thermal logic technologies
- Dynamic CKE, for additional power savings with memory DIMMs
- Floating point coprocessor
- Full width Intel QuickPath Interconnect (QPI) links providing 25.6 Gb/s of bandwidth
- QPI error detection, correction and lane failover
- Two memory controllers per processor w/ aggregate bandwidth of 34 Gb/s read
- 1MB directory cache in memory controller
- Support for 12 DDR3 memory DIMMs per processor
- Turbo Boost Technology (allows low activity factor workloads to run at a faster clock speed)
- Error protection on all major data structures
- Dynamic Processor resilience and de-allocation (DPR)
- Advanced Machine Check Architecture (AMCA)
- Automatic Process Recovery (APR)
- Enhanced resistance to Soft Errors

Memory Expansion

- Up to four (4) 6-slot memory riser boards with total of 24 DDR3 registered Low Voltage (1.35V) memory modules (RDIMMs) are supported
- Up to 384Gb system memory with Low Voltage (1.35V) 16Gb DIMMs



Standard Features

Memory Modules

DDR3 (double data rate) SDRAM (synchronous dynamic random access memory) DIMMs with the following capacities:

- 16GB (2 x 8GB) PC3L-12800 Registered CAS 11 Memory Kit
- 32GB (2 x 16GB) PC3L-12800 Registered CAS 11 Memory Kit

Key features:

- DRAM ECC (Double Device Data Correction - DDDC)
- Memory Scrubbing
- Scalable Memory Interface (SMI) memory channel protection
- ECC and double chip spare to overcome single DRAM chip failures.

Internal Storage

- Up to eight (8) small form factor (SFF) hot-plug hard disk drives (HDD) or solid state drives (SSD)
- Up to 9.6TB of internal storage with 1.2Tb HDDs

Embedded Storage Controller

Integrated HPE Smart Array P410i 6Gbps Serial-Attached SCSI (SAS) RAID Controller

Key features

- Support for eight (8) internal Hard Disk Drive (HDDs) and Solid State Drives (SSDs)
- Supports RAID 0, 1, 10, 5, 50, 6, 60

Notes: Please refer to configuration information below for additional components that are required for RAID 5, 5+0, 6, 6+0

Internal Hard Disk Drives

Support for 12Gb/s Digitally Signed SAS HDDs

- 300Gb, 600 Gb and 900Gb 15K RPM 12G/s SAS (Serial Attached SCSI) 2.5" Small Form Factor Digitally Signed Disk
- 300Gb, 600Gb, 1.2Tb 10K RPM 12G/s SAS (Serial Attached SCSI) 2.5" Small Form Factor Digitally Signed Disk

Internal Solid State Drives

Support for 12 Gb/s SAS Single Level Cell (SLC) SSDs

- 400Gb, 800Gb 12G SAS SLC 2.5" Small Form Factor (SFF) Digitally Signed Firmware Enterprise Performance Solid State Drive

Optical Media Drive

Up to one (1) HPE Slimline DVD-RW or DVD-ROM Optical Drive

Embedded Network Controller

Two (2) two-port Intel 82575 embedded 10/100/1000 Base-X LAN (auto sensing; RJ 45 connector, Wake On LAN support)

Graphics, VGA, USB and Serial ports

RN50 integrated chip for basic graphic capabilities with support for one of two (2) VGA ports (front or rear)

- Supports maximum resolution of 1280x1024x16M color. It does not support widescreen resolutions. One (1) RS 232 serial port

Four (4) USB 2.0 ports

I/O Expansion slots

Up to six (6) PCIe Gen2 slots with choice of PCIe riser cards are supported

- 3-Slot Riser Card (1 FL/FH x8 speed/x16 connector and 2 HL/FH x4 speed/x8 connector)

2-Slot Riser Card (1 FL/FH x8 speed/x16 connector and 1 HL/FH x8 speed/x16 connector)



Standard Features

Network Adapters

Support for PCIe 1 & 10 Gb/s network adapters for Local Area Network (LAN)

- HPE Integrity 10GbE-SR/LR/CR 2port PCIe Adapter
- HPE Ethernet 10Gb 2 port 561T Adapter
- HPE 1000Base -T/SX 2 port PCIe Adapter

Converged Network Adapters

Support for PCIe 10 Gb/s converged network adapters for Fibre Channel over Ethernet

- HPE Integrity CN1100E PCIe 2-port CNA

Fibre Channel Host Bus Adapters

Support for one (1) or two (2) port (eight) 16 Gb/s Fibre Channel Host Bus Adapters

- HPE SN1000Q 1-port 16Gb FC HBA
- HPE SN1000Q 2-port 16Gb FC HBA

SAS RAID Controllers and Host Bus Adapters

Support for 6 Gb/s SAS RAID Controllers

- HPE Integrity PCIe 2p P411/256MB SAS Ctrlr
- HPE Integrity SA 812/1GB PCIe SAS Ctrl

Support for 12 Gb/s SAS RAID Controller

- HPE Integrity Smart Array P441 12Gb 2-port External SAS Controller

Graphics Adapter

Support for 2D graphics

- HPE Integrity rx2800 2D Graphics Adapter

InfiniBand Host Channel Adapters

Support for Quad-Data Rate (QDR) 40 Gb/s 4X connector based InfiniBand Host Channel Adapter

- HPE Integrity 4X QDR CX-2 PCI-e G2 DP HCA

PCIe Workload Accelerator

Support for Intel's 3DXPPoint P4800X adapter

- HPE 750GB PCIe x4 Lanes Write Intensive HHHL

Hardware Security

Support for Trusted Platform Module (TPM) for hardware security support

Power & Cooling

Up to two (2) hot-swap power supplies for N+N redundancy

- 1200W Hot Plug Power Supply Kit (Supports High-Line and Low-Line Voltages)

Notes: It is highly recommended that the HPE Power Advisor tool is run to determine configuration specific power and cooling needs. Please refer to: <https://www.hpe.com/h20195/v2/GetPDF.aspx/4AA6-2925ENW.pdf>

Up to six (6) hot-plug fans (N+1 redundancy)

Key Power & Cooling Features:

- Power monitoring and control
- UPS power management

The hot swap design allows for the online replacement of a power supply when N+N=2 supplies are configured in the server.



Standard Features

Embedded Manageability and Serviceability

HPE Integrity Integrated Lights-Out (iLO) 3 (factory integrated)

HPE Integrity Integrated Lights-Out (iLO) management processors make it simpler, faster, and less costly to remotely manage your Integrity servers.

Key features:

- Telnet and web console via 10/100/1000Base-T management LAN (RJ 45 connector)
- Local VT100 or hpterm terminal, or VT100 or hpterm emulator via local RS 232 serial connection
- Remote VT100 or hpterm terminal, or VT100 or hpterm emulator via external modem
- SSL secured Web console accessible through the 10/100/1000Base-TX management LAN
- Console mirroring between all local, modem, LAN, and web consoles
- Virtual Media
- LDAP directory services
- iLO power measurement
- Integration with Insight Power Manager
- Separate LAN for system management
- Password protection on console port
- Disablement of remote console ports
- Remote power up and power down control
- Configurable remote access control
- Event notification to system console-Provides connectivity, information, and support for HP-UX tools (such as STM and EMS) to notify by email, pager and/or Hewlett Packard Enterprise response centers.
- Interface to system monitoring and diagnostic hardware via an internal IC bus

Notes: HPE Integrity iLO 3 ships with a built in Advanced Pack License. No additional iLO licensing is needed. For more information, please see <http://www.hpe.com/info/integrityilo>

Systems Insight Display

HPE Systems Insight Display LEDs enables diagnosis with the access panel installed

Accessories

Rack Kits

For customers who need to use non-HPE cabinets, simple options for installation are available

- Field Rack Kit (contains adjustable side rails to mount server in cabinets that use the four post EIA mounting system)
- Pedestal Kit (for tower form factor deployment)
- Rackmount Shelf Kit

Notes: For non-HPE cabinets, please adhere to the following instructions to ensure that HPE can support the rack environment.

- **Anti-Tip** - The rack/cabinet must be solidly anchored to the floor both front and rear. This is usually accomplished by anti-tip feet or by direct bolting to the floor.
- **Air Flow** - The HPE Integrity rx2800 i6 uses front to back airflow to cool the unit. Thus a cabinet cannot have a solid front or rear door. Solid doors may have to be removed or changed to an open perforation pattern.
- **Cable Strain Relief** - A proper method of strain relief must be used. This may force the elimination of the rear door in some cases.
- **Front and Rear Access** - For proper cooling and ease of service access, Hewlett Packard Enterprise recommends 32 inches of unobstructed floor space in the front and rear of rack installations. This recommendation applies to both HPE and third party racks and cabinets.



Standard Features

Operating System

- HP-UX 11i v3 2019 Update Release (HP-UX 11i v3 1905 release)
- HP-UX 11i v3 Data Center Operating Environment (DC-OE)
- HP-UX 11i v3 Virtual Server Operating Environment (VSE-OE)
- HP-UX 11i v3 High Availability Operating Environment (HA-OE)
- HP-UX 11i v3 Base Operating Environment (BOE)
- VSI OpenVMS V8.4-2L1 Base Operating Environment (BOE)
- VSI OpenVMS V8.4-2L1 High Availability Operating Environment (HA-OE)

Notes:

- For detailed information on HP-UX support and features, please visit the following links:
 - o QuickSpecs: <https://www.hpe.com/h20195/v2/GetHTML.aspx?docname=c04111649>
 - o Overview: <https://www.hpe.com/us/en/servers/hp-ux.html>
 - For detailed information on VSI OpenVMS platform requirements, please visit the following pages:
 - o OpenVMS Partner Platform Statements: https://vmssoftware.com/docs/VSI_IO_REF.pdf
 - Software Product Descriptions and QuickSpecs: <https://vmssoftware.com/products/why-openvms/>
-



Service and Support

HPE Services

No matter where you are in your digital transformation journey, you can count on HPE Services to deliver the expertise you need when, where and how you need it. From planning to deployment, ongoing operations and beyond, our experts can help you realize your digital ambitions.

<https://www.hpe.com/services>

Consulting Services

No matter where you are in your journey to hybrid cloud, experts can help you map out your next steps. From determining what workloads should live where, to handling governance and compliance, to managing costs, our experts can help you optimize your operations.

<https://www.hpe.com/services/consulting>

HPE Managed Services

HPE runs your IT operations, providing services that monitor, operate, and optimize your infrastructure and applications, delivered consistently and globally to give you unified control and let you focus on innovation.

[HPE Managed Services | HPE](#)

Operational services

Optimize your entire IT environment and drive innovation. Manage day-to-day IT operational tasks while freeing up valuable time and resources. Meet service-level targets and business objectives with features designed to drive better business outcomes.

<https://www.hpe.com/services/operational>

HPE Complete Care Service

HPE Complete Care Service is a modular, edge-to-cloud IT environment service designed to help optimize your entire IT environment and achieve agreed upon IT outcomes and business goals through a personalized experience. All delivered by an assigned team of HPE Services experts. HPE Complete Care Service provides:

- A complete coverage approach -- edge to cloud
- An assigned HPE team
- Modular and fully personalized engagement
- Enhanced Incident Management experience with priority access
- Digitally enabled and AI driven customer experience

<https://www.hpe.com/services/completecure>

HPE Tech Care Service

HPE Tech Care Service is the operational support service experience for HPE products. The service goes beyond traditional support by providing access to product specific experts, an AI driven digital experience, and general technical guidance to not only reduce risk but constantly search for ways to do things better. HPE Tech Care Service delivers a customer-centric, AI driven, and digitally enabled customer experience to move your business forward. HPE Tech Care Service is available in three response levels. Basic, which provides 9x5 business hour availability and a 2-hour response time. Essential which provides a 15-minute response time 24x7 for most enterprise level customers, and Critical which includes a 6-hour repair commitment where available and outage management response for severity 1 incidents.

<https://www.hpe.com/services/techcare>



Service and Support

HPE Lifecycle Services

HPE Lifecycle Services provide a variety of options to help maintain your HPE systems and solutions at all stages of the product lifecycle. A few popular examples include:

- Lifecycle Install and Startup Services: Various levels for physical installation and power on, remote access setup, installation and startup, and enhanced installation services with the operating system.
- HPE Firmware Update Analysis Service: Recommendations for firmware revision levels for selected HPE products, taking into account the relevant revision dependencies within your IT environment.
- HPE Firmware Update Implementation Service: Implementation of firmware updates for selected HPE server, storage, and solution products, taking into account the relevant revision dependencies within your IT environment.
- Implementation assistance services: Highly trained technical service specialists to assist you with a variety of activities, ranging from design, implementation, and platform deployment to consolidation, migration, project management, and onsite technical forums.
- HPE Service Credits: Access to prepaid services for flexibility to choose from a variety of specialized service activities, including assessments, performance maintenance reviews, firmware management, professional services, and operational best practices.

Notes: To review the list of Lifecycle Services available for your product go to:

<https://www.hpe.com/services/lifecycle>

For a list of the most frequently purchased services using service credits, see the [HPE Service Credits Menu](#)

Other Related Services from HPE Services:

HPE Education Services

Training and certification designed for IT and business professionals across all industries. Broad catalogue of course offerings to expand skills and proficiencies in topics ranging from cloud and cybersecurity to AI and DevOps. Create learning paths to expand proficiency in a specific subject. Schedule training in a way that works best for your business with flexible continuous learning options.

<https://www.hpe.com/services/training>

Defective Media Retention

An option available with HPE Complete Care Service and HPE Tech Care Service and applies only to Disk or eligible SSD/Flash Drives replaced by HPE due to malfunction.

Consult your HPE Sales Representative or Authorized Channel Partner of choice for any additional questions and services options.

Parts and Materials

HPE will provide HPE-supported replacement parts and materials necessary to maintain the covered hardware product in operating condition, including parts and materials for available and recommended engineering improvements.

Parts and components that have reached their maximum supported lifetime and/or the maximum usage limitations as set forth in the manufacturer's operating manual, product quick-specs, or the technical product data sheet will not be provided, repaired, or replaced as part of these services.

How to Purchase Services

Services are sold by Hewlett Packard Enterprise and Hewlett Packard Enterprise Authorized Service Partners:

- Services for customers purchasing from HPE or an enterprise reseller are quoted using HPE order configuration tools.
- Customers purchasing from a commercial reseller can find services at <https://ssc.hpe.com/portal/site/ssc/>



Service and Support

AI Powered and Digitally Enabled Support Experience

Achieve faster time to resolution with access to product-specific resources and expertise through a digital and data driven customer experience

Sign into the HPE Support Center experience, featuring streamlined self-serve case creation and management capabilities with inline knowledge recommendations. You will also find personalized task alerts and powerful troubleshooting support through an intelligent virtual agent with seamless transition when needed to a live support agent.

<https://support.hpe.com/hpesc/public/home/signin>

Consume IT On Your Terms

HPE GreenLake edge-to-cloud platform brings the cloud experience directly to your apps and data wherever they are—the edge, colocations, or your data center. It delivers cloud services for on-premises IT infrastructure specifically tailored to your most demanding workloads. With a pay-per-use, scalable, point-and-click self-service experience that is managed for you, HPE GreenLake edge-to-cloud platform accelerates digital transformation in a distributed, edge-to-cloud world.

- Get faster time to market
- Save on TCO, align costs to business
- Scale quickly, meet unpredictable demand
- Simplify IT operations across your data centers and clouds

To learn more about HPE Services, please contact your Hewlett Packard Enterprise sales representative or Hewlett Packard Enterprise Authorized Channel Partner. Contact information for a representative in your area can be found at "Contact HPE"

<https://www.hpe.com/us/en/contact-hpe.html>

For more information

<http://www.hpe.com/services>



Configuration Information

Server product numbers

HPE Integrity rx2800 Rack-optimized Server

AT101A

Minimum additional components required:

- One processor
- 16 Gb memory
- HPE rx2800 Racking Kit

Notes:

- Supports High Line Power (1200W) and Low Line Power (800W)
- Low Line Power (800W) is supported in limited configurations. One processor with up to 12 memory DIMMs or two processor sockets with up to 8 memory DIMMs
- With HPE Smart Array P410i 6 Gb/s SAS RAID Controller:
 - o HPE rx2800 512MB FBWC Kit (AM252A) is required for RAID 5 and RAID 5+0
 - o HPE rx2800 512MB FBWC kit (AM252A) AND HPE rx2800 i4 Smart Array Advance Pack (SAAP) License (AM305A) is required for RAID 6 and RAID 6+0.

Processors

Intel Itanium 9720 (1.73GHz/4-core/20MB/130W) Processor Kit for HPE Integrity rx2800 i6

AT104B

Intel Itanium 9750 (2.53GHz/4-core/32MB/170W) Processor Kit for HPE Integrity rx2800 i6

AT138B

Intel Itanium 9740 (2.13GHz/8-core/24MB/170W) Processor Kit for HPE Integrity rx2800 i6

AT105B

Intel Itanium 9760 (2.66GHz/8-core/32MB/170W) Processor Kit for HPE Integrity rx2800 i6

AT106B

Notes: Processor frequencies cannot be mixed in a server.

Memory Exp Board

HPE Integrity rx2800 6-slot Memory Expansion Board

AT103A

Notes:

- Each memory expansion board contains six (6) memory DIMM slots
- The server supports a maximum of four (4) memory expansion boards or 24 DIMM slots.
- For one processor in system, maximum of two (2) memory expansion boards are supported.

System Memory

HPE rx2800 32GB (2x16GB) Dual Rank PC3L 12800 (DDR3-1600) Registered CAS-9 Memory Kit

AT110A

Notes:

- Memory must be installed in groups of two DIMMs, also known as pairs or modules.
- For best performance, all DIMM slots should be populated with the same size DIMM.
- Each memory pair must consist of DIMMs of the same type: same capacity/density, same organization, same number of ranks, and same speed.
- Alternate DIMM pairs between memory risers. If both processor sockets are populated, alternate DIMMs between processors.



Configuration Information

I/O Riser Boards

HPE Integrity rx2800 PCIe 3-slot Riser Board

AM228A

Notes:

- I/O Riser Boards can be mixed in the system
- Last two slots on second I/O riser board (secondary riser board) supports only Low Profile form factor for some I/O cards.

Network Adapters

HPE PCIe 2-port 1000Base-T LAN Adapter

AD337A

Converged Network Adapters

Notes:

- Transceivers (HPE Integrity 10Gb SR SFP+ Opt) must be ordered separately.
- For more details, please visit: <https://www.hpe.com/h20195/v2/GetHTML.aspx?docname=c04164534>

Fibre Channel Host Bus Adapters

HPE Integrity SN1000Q 2-port 16Gb Fibre Channel Host Bus Adapter

B9F24A

Transceivers

HPE Integrity 10Gb SR SFP+ Transceiver

AT139A

InfiniBand Host Channel Adapters

Notes:

- Maximum of two cards are supported.
- For more details, please visit: <https://www.hpe.com/h20195/v2/GetHTML.aspx?docname=c04154382>

Hardware Security Support

Notes:

- Maximum of one (1) module is supported.
- Module is not shipped to China and Russia.

Internal Hard Disk Drives (HDDs)

HPE Integrity 1.2TB SAS 12G Enterprise 10K SFF (2.5in) ST 3yr Wty Digitally Signed Firmware HDD

B9F36B

HPE Integrity 600GB SAS 12G Enterprise 15K SFF (2.5in) ST 3yr Wty Digitally Signed Firmware HDD

B9F32B

Notes: HPE rx2800 RAID 5 Factory Config is not allowed.

Solid State Drives (SSDs)

Factory RAID Options

Notes: Requires minimum 1 drive

HPE Integrity RAID 1 Factory Configuration

AM239A

Notes: Requires minimum 2 drives

HPE Integrity rx2800 RAID 5 Factory Configuration

AM240A

Notes:

- Requires minimum 3 drives
- If RAID is selected, all hard drives must be identical



Configuration Information

Internal Optical Drives

HPE Integrity rx2800 Slimline DVD-ROM Internal Optical Drive	AM242A
HPE Integrity rx2800 Slimline DVD+RW Internal Optical Drive	AM243A

Keyboard and Mouse Kits

HPE USB US Keyboard/Mouse Kit	631341-B21
HPE USB JP Keyboard/Mouse Kit	631360-B21
HPE USB AP/INTL Keyboard/Mouse Kit	672097-373

Power Supplies

HPE Integrity rx2800 Redundant Power Supply	AT133A
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Notes:

- The server provides an independent power input receptacle for each power supply (c13/C14 type). The independent design provides protection against losing the connection from a power cord or breaker.
- Power cords should always be plugged into separate breakers whenever possible.
- If the N+N power supply is ordered standalone the power supply will ship with two cords; one connects the system to the rack PDU and one enables connection to a wall socket. The cord that connects the system power supply to the PDU has an IEC 13 end, which plugs into the system power supply's IEC 14 socket, and an IEC 14 end, which plugs into the PDU's IEC 13 socket. The localized cord that connects the system power supply directly to the wall socket has an IEC 13 end, which plugs into the system power supply's IEC 14 socket, and a country specific end, which plugs into the wall socket. This localized cord is included at the distribution site.
If the N+N power supply is ordered with the server, the additional cords will be included.

Racking Options

HPE Integrity rx2800 Racking Kit	AM227A
HPE Integrity rx26/2800 Rack Support Shelf Kit	AB469A

Notes: Required for factory racked order. One shelf kit needed per every 10 servers in the rack and one for every gap left between servers

Notes: Can be ordered separately for tower form deployment of HPE Integrity rx2800 Rack-Optimized Server (AT101A)



Technical Specifications

Site Planning and Installation - Not Included (system is customer installable)

Dimensions	Height	89 mm (3.5") (2U)
	Width	482mm (19")
	Depth	692 mm (27.3")
Weight	Maximum	30 kg (66 lbs) (fully populated)
30 kg (66 lbs) (fully populated)	Voltage Range	100 - 120 VAC 200 - 240 VAC
	Maximum Current	9.2 Amps @ 100VAC, 6.6 Amps @ 200VAC
	Frequency Range	50 - 60 Hz
	Rated Input Power	1015W @ 115 VAC 1320W @ 230 VAC
BTU Rating	Maximum	4800 BTU/hr (at 240 VAC) 3400 BTU/hr (at 120 VAC)
Power Supply Output	Maximum	800w maximum @ 100 - 120VAC 1200W maximum @ 200 - 240 VAC
System Inlet Temperature	Recommended Operating Temperature	18°C - 27°C (64°F - 81°F)*
	Allowable Operating Temperature	5°C - 35°C (41°F - 95°F)*
	Non-Operating Temperature	-40°C - 80°C (-40°F - 175°F)
Notes: Operating limits apply from sea level to 1500m (4900 ft), above 1500m (4900 ft), derate maximum temperature by 2°C per every 300 m (3.6°F per every 985 ft) above sea level to a maximum of 3050 m (10,000 ft). No direct sustained sunlight. Maximum rate of change is 20°C (36°F) per hour. The Recommended Operating Range is recommended for continuous operation. Operating within the Allowable Operating Range is supported but may result in a decrease in system performance.		
Humidity (non-condensing)	Recommended Operating Humidity	5.5°C (42°F) DP - 60% RH or 15°C (50°F) DP
	Allowable Operating Humidity	20% RH - 80% RH and 21°C (70°F) DP
	Non-operating Installed	8% RH - 90% RH and 29°C (84°F) DP
	Non-operating Storage	8% RH - 90% RH and 32°C (90°F) DP
Altitude	Operating	3050m (10,000 ft) maximum
	Non-operating	4500m (15,000 ft) maximum
Air Quality	Airborne contaminants must be at the G1 level or less as defined in ISA Standard ISA-71.04-1985	



Technical Specifications

Airflow	Minimum	1360 CMH (800 CFM)
	Maximum	3230 CMH (1900 CFM)
Acoustics (sound power)	Rack Mount	<= 7.0 bels LwAd
Regulatory Compliance	Regulatory Model Number	RSVLA-RC01
	Electromagnetic interference	Complies with FCC Rules and Regulations, Part 15, as a Class A digital device. Manufacturer's Declaration to EN55022 Class A, VCCI Registered, Class A, KC (Korea Certification), BMSI Taiwan, CSA Certified, compliant with IEC 60950, UL 60950, EN 60950 and EN41003
	Safety	UL Listed, CSA Certified, TUV GS Mark compliant with EN 60950 and EN 41003



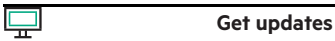
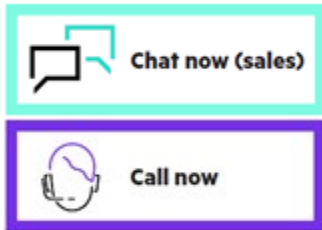
Summary of Changes

Date	Version History	Action	Description of Change
04-Dec-2023	Version 13	Changed	Service and Support section was updated
15-Nov-2021	Version 12	Changed	Service and Support Pointnext Tech Care and Complete Care information updated
03-Feb-2020	Version 11	Changed	Overview, Standard Features, and Configuration Information sections were updated.
02-Dec-2019	Version 10	Changed	Service and Support and Configuration Information sections were updated.
02-Apr-2019	Version 9	Added	Standard Features section was updated.
		Removed	Obsolete SKU was deleted: AH423A
03-Dec-2018	Version 8	Changed	Overview, Standard Features, and Ordering and Configuration sections were updated.
		Added	SKUs added in Ordering and Configuration section: P04558-B21, P04562-B21.
01-Oct-2018	Version 7	Changed	Configuration sections were updated.
2-Jul-2018	Version 6	Changed	Standard Features and Ordering and Configuration sections were updated.
		Added	SKUs added: 878038-H21, Q9X08A.
25-Sep-2017	Version 5	Changed	Standard Features and Ordering and Configuration sections were updated.
		Added	SKUs added in Ordering and Configuration section: B9F51B, B9F52B.
		Removed	SKUS deleted in Ordering and Configuration section: B9F50A, B9F51A, B9F52A.
14-Aug-2017	Version 4	Changed	Standard Features and Ordering and Configuration section were updated.
		Added	SKUs added in Ordering and Configuration section: 803197-B21, 803195-B21.
18-Aug-2017	Version 3	Changed	Standard Features section was updated.
11-Jul-2017	Version 2	Changed	Standard Features and Ordering and Configuration sections were updated.
		Added	SKUs added in Ordering and Configuration section: AD337A, AD338A and AD339A.
05-Jun-2017	Version 1	Created	New QuickSpecs



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