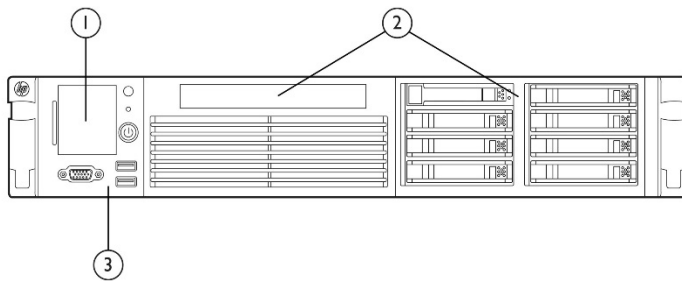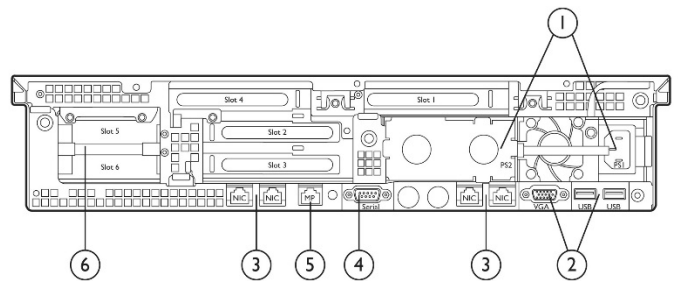## Overview

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.
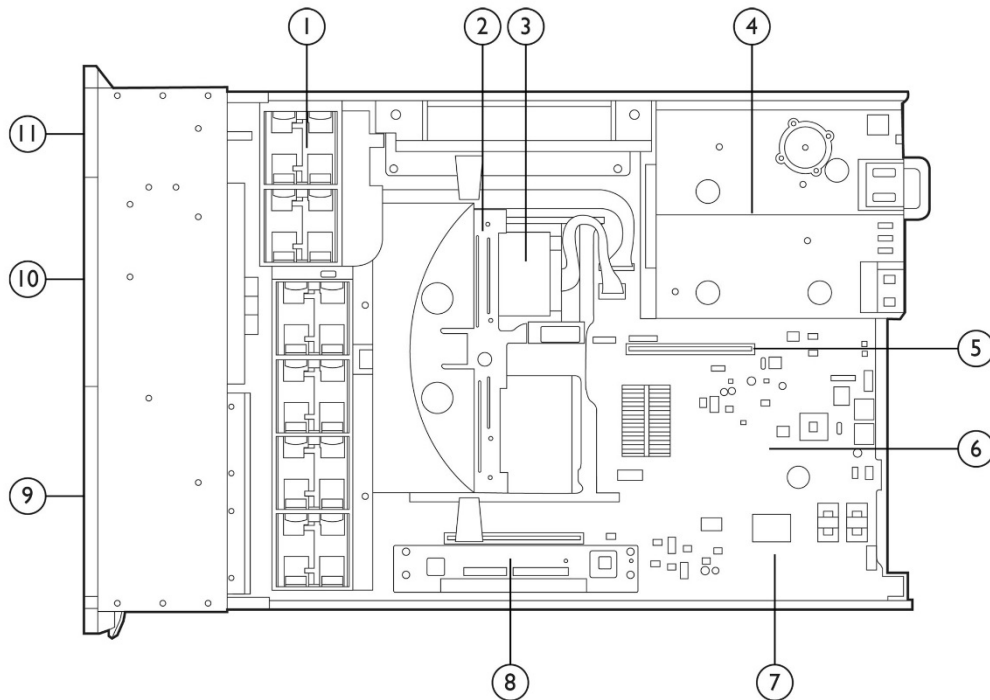

HPE Integrity rx2800 i6 Server: Front View

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
2. Internal USB
3. 2 Processor Sockets
4. 2 PSUs over ICH10, Gromit XE & RN50 video controller
5. Chipset
6. 2 full-length PCIe slots over 2 half-length PCIe slots

7. 2 low profile PCIe above p410i RAID controller
8. 24 DDR3 Memory Modules
9. 8 Hard Disk Drive Slots
10. DVD-ROM or DVD+RW slot
11. Front IO & Systems Insight Display

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 Ctlr
- 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 3DXPoint 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

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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: **http://www.vmssoftware.com/products_i6server.html**
- Software Product Descriptions and QuickSpecs: **https://vmssoftware.com/products/why-openvms/**

Service and Support

HPE Pointnext - Service and Support
Get the most from your HPE Products. Get the expertise you need at every step of your IT journey with **HPE Pointnext Services**. We help you lower your risks and overall costs using automation and methodologies that have been tested and refined by HPE experts through thousands of deployments globally. HPE Pointnext **Advisory Services**, focus on your business outcomes and goals, partnering with you to design your transformation and build a roadmap tuned to your unique challenges. Our **Professional** and **Operational Services** can be leveraged to speed up time-to-production, boost performance and accelerate your business. HPE Pointnext specializes in flawless and on-time implementation, on-budget execution, and creative configurations that get the most out of software and hardware alike.

Consume IT on your terms
HPE GreenLake 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 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

Managed services to run your IT operations
HPE GreenLake Management Services provides 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.

Free up resources with Operational Services from HPE Pointnext Services
HPE delivers services for IT by using proven best practices as well as automation and methodologies that have been tested and refined by HPE experts and artificial intelligence through thousands of deployments globally. Choose from the recommended services for customers purchasing from Hewlett Packard Enterprise or an authorized reseller. Services are quoted using Hewlett Packard Enterprise order configuration tools.

HPE Pointnext Tech Care
HPE Pointnext Tech Care is the new operational service experience for HPE products. Tech Care 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 Pointnext Tech Care has been reimagined from the ground up to support a customer-centric, AI driven, and digitally enabled customer experience to move your business forward. HPE Pointnext Tech Care 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

HPE Pointnext Complete Care
HPE Pointnext Complete Care is a modular, edge-to-cloud IT environment service that provides a holistic approach to optimizing your entire IT environment and achieving agreed upon IT outcomes and business goals through a personalized and customer-centric experience. All delivered by an assigned team of HPE Pointnext Services experts. HPE Pointnext Complete Care 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/completecare

Service and Support

Other related Services

Warranty

Three-year parts, 3 Year Labor and 3 Year on-site limited global warranty.
Protected by Hewlett Packard Enterprise Services and a worldwide network of Hewlett Packard Enterprise Authorized Channel Partners.

HPE Installation and Startup Service provides for the installation and startup of HPE technology including BladeSystems, C-Class enclosure, HPE ProLiant c-Class and Integrity server blades, storage blades, SAN switch blades, HPE Virtual Connect modules (Ethernet and Fibre Channel), Ethernet network interconnects, and InfiniBand, as well as the installation of one supported operating system type (Windows® or Linux).

HPE Factory Express for Servers and storage

HPE Factory Express offers configuration, customization, integration and deployment services for HPE servers and storage products. Customers can choose how their factory solutions are built, tested, integrated, shipped and deployed.

Factory Express offers service packages for simple configuration, racking, installation, complex configuration and design services as well as individual factory services, such as image loading, asset tagging, and custom packaging. HPE products supported through Factory Express include a wide array of servers and storage: HPE Integrity, HPE ProLiant, HPE Apollo, HPE ProLiant Server Blades, HPE BladeSystem as well as the MSAxxxx3PAR suite, XP, rackable tape libraries and configurable network switches.

HPE Technology Services Support Credits offer flexible services and technical skills to meet your changing IT demands. With a menu of service that is tailored to suit your needs, you get additional resources and specialist skills to help you maintain peak performance of your IT. Offered as annual credits, you can plan your budgets while proactively responding to your dynamic business.

HPE Education Services

Provides comprehensive training designed to expand the skills of your IT staff and keep them up to speed with the latest technologies.

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.

Defective Media Retention

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

Service and Support

For more information

- **www.hpe.com/services**
- **https://www.hpe.com/us/en/services/operational.html**

To learn more on HPE Storage 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**

HPE Support Services are sold by HPE 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 HPE Support Services at **https://ssc.hpe.com/portal/site/ssc/**

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.

PCIe Workload Accelerator

HPE 750GB NVMe Gen3 x4 High Performance Low Latency Write Intensive AIC HHHL P4800X SSD   878038-H21

Notes: Maximum of four (4) cards are supported.

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 Integrity PCIe 2-port 10GbE-SR Fabric Adapter — AM225A

Notes: For more details, please visit:
https://www.hpe.com/h20195/v2/GetHTML.aspx?docname=c04123309

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=c04123240

HPE Ethernet 10Gb 2-port 561T Adapter for Integrity Servers — B9F25A

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 1-port 16Gb Fibre Channel Host Bus Adapter — B9F23A

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.

SAS RAID Controllers and Host Bus Adapters

Notes:
- Only supported in primary I/O riser board
- Maximum of three (3) HPE Integrity PCIe 2P P411/256MB SAS Ctlr (AM311A) cards are supported.

Configuration Information

Notes:
- — Maximum of one (1) card is supported.
- — For more information, please visit: **https://www.hpe.com/h20195/v2/GetHTML.aspx?docname=c04123316**

HPE Integrity Smart Array P441 12Gb 2-port External SAS Controller   Q9X08A

Notes: Maximum of three (3) adapters are supported.

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

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

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 plus 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.

Configuration Information

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
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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