DATASHEET

Hitachi Advanced Server HA820 G2

Purpose built for high performance and capacity, this general-purpose dual-processor server delivers a balance of compute and storage capacity with the flexibility to power a wide range of solutions and applications.

FLEXIBLE POWER FOR SOLUTIONS

High Performance

HA820 G2 provides flexible memory and storage options to meet the needs of modern infrastructure solutions, as well as for dedicated application platforms and high performance data appliances. The Intel Xeon Scalable processor family is optimized to address the growing demands on today's IT infrastructure. The server provides Industry-leading Performance with Versatile Compute Via industry-standard technology leveraging the Intel Xeon Scalable processor with up to 40 cores, 24G SAS and 8.0 TB of 3200 MT/s DDR4 Memory.

High Capacity Storage

Achieve greater capacity with flexible drive configurations with up to 36 Small Form Factor (SFF) or with up to 20 Large Form Factor (LFF) drives along with an option to support up to 34 NVMe PCIe SSDs delivering enhanced performance, capacity, and reliability to meet various customer segments and workload requirements at the right economics.

I/O Expansion

Full-height, low-profile and OCP PCIe 4.0 expansion slots are available, as well as an AROC slot. In total the server supports up to 10 PCIe Gen4 expansion slots. This allows the HA820 G2 to be flexibly configured to optimize throughput, capacity and I/O performance for a wide range of enterprise applications.

Enterprise-Class Features

HA820 G2 server provides the reliability, avail- ability and serviceability (RAS) features demanded by business-critical enterprise applications. The server's modular design simplifies cable routing and reduces service time. Redundant, hot-swap drives and power supplies provide a resilient architecture for important applications, and hot-swap fans help ensure continuous operation.

Embedded Server Management

An integrated baseboard management controller allows HA820 G2 to be managed remotely and independently. A dedicated interface facilitates secure remote access through a LAN connection and provides a powerful, easy-to-use web console interface for remote initialization, management and configuration.

High Scalability and Performance for Solution Workloads

With a combination of two Intel Xeon Scalable processors and high storage capacity in a 2U rack space package, Hitachi Advanced Server HA820 G2 delivers the storage and I/O to meet the needs of converged solutions and high performance applications in the data center.

The Intel Xeon Scalable processor family is optimized to address the growing demands on today's IT infrastructure. The server provides 32 slots for high-speed DDR4 memory, allowing up to 8TB memory capacity with LRDIMM population (256GB x 32) or 8TB (512GB x 16) with Intel Optane Persistent Memory population.

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Converged and Hyperconverged Infrastructure

HITACHI ADVANCED SERVER HA820 G2

Processor	3rd Gen Intel® Xeon® Scalable Processor Family Max. Thermal Design Power (TDP) Support: 270W Number of Processors: 2 processors Internal Interconnect: 10.4 or 11.2 giga transfers per second (GT/s)
Form Factor	2U
Dimensions	SFF: 8.75 x 44.54 x 71. cm / 3.44 x 17.54 x 28 in LFF: 8.75 x 44.54 x 74.9 cm / 3.44 x 17.54 x 29.5 in
Weight(approximate)	SFF: Maximum: 28.8 kg (64 lb), LFF: Maximum: 34.0 kg (75 lb)
Chipset	Intel C621A
Storage	SFF (2.5" SAS/SATA/NVMe): standard: 8 or 24 max (optional): 36 LFF (3.5" SAS/SATA): standard 8 or 12 max (optional): 20
Memory	Total Slots: 32 Capacity / Memory type: Up to 8TB (16 x 512GB Intel Optane Persistent memory), Up to 8TB (32 x 256GB DDR4 LRDIMMs@3200MT/s), Up to 2TB (32 x 64GB DDR4 RDIMMs@3200MT/s)
Expansion Slot	Standard Primary riser: PCIe Gen4 x8 (full Height, full length), x16 (full height, full length), x8 (full Height, half length) (*) slot variation can be changed by optional riser
Network Controller	Choice of OCP or stand-up card, supporting a wide arrange of NIC adapters
Other I/O Interfaces	(1) Serial port(optional), (2) Display port(1 rear VGA, 1 front (optional)), (2) USB 2.0(2 front (optional)), (5) USB 3.0 ports (1 front, 2 rear, 2 internal), (1) Front iLO Service Port
Storage Controller	Software RAID: Smart Array S100i controller. Essential RAID Controller: Smart Array E-series (optional) Performance RAID Controller: Smart Array P-series (optional)
Power Supply	(1+1) High-efficiency, redundant, hot-plug power supply unit (PSU) Platinum: 800W(100-240V ac), 1600W(200-240V ac)
Fan	(6) Standard fans, with fan redundancy (6) High performance fans(optional) with fan redundancy
Noise	Performance mode: Idle, less than 37 dBA, Operating, less than 37 dBA (*) Measured in accordance with ISO 7779. Acoustics levels will vary depending on system configuration.
Video	Integrated 1920 x 1200 DPI 60Hz(32bpp) with 16MB of video memory
System Management	iLo 5 - Monitor user's servers for ongoing management, service alerting, reporting and remote management with restful API UEFI Configure and boot user's servers securely with industry standard UEFI
Operating Environment	Operating temperature: 10°C to 35°C at sea level, with an altitude derating of 1.0°C per every 305 m (1.8°F per every 1000 ft) above sea level to a maximum of 3050 m (10,000 ft), no direct sustained sunlight
	Altitude: Operating 3050m (10,000ft) Non-Operating 9144m (30,000ft)
	Operating relative humidity: 8% to 90% RH 28°C maximum wet bulb temperature, non-condensing
	Non-operating relative humidity: 5% to 95% RH 38.7°C (101.7°F) maximum wet bulb temperature, non-condensing
Trusted Platform Module (TPM)	TPM 2.0 module

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