

Hitachi Advanced Server DS220 G2

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Inspire the Next

Optimized 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.

DATASHEET



Flexible Power for Solutions

Flexible High-Capacity Storage

DS220 G2 comes in three storage configurations to allow for end user flexibility. The first configuration supports 24 2.5-inch non-volatile memory express (NVMe) drives, the second supports 24 2.5-inch serial-attached SCSI (SAS), serial-ATA (SATA), and up to 8 NVMe drives, and the third supports 12 3.5-inch SAS or SATA, and up to 8 NVMe drives. All of the configurations support hot-pluggable, front-side-accessible drives as well as 2 optional 2.5-inch rear mounted drives. Together the DS220 G2 delivers high I/O performance and high capacity for demanding applications and solutions.

I/O Expansion

Full-height, low-profile and mezzanine PCIe 4.0 expansion slots are available, as well as an OCP NIC 3.0 slot, including support for dual width and single width GPUs. In total the server supports up to 10 PCIe Gen4 expansion slots. This allows the DS220 G2 to be flexibly configured to optimize throughput, capacity and I/O performance for a wide range of enterprise applications.

Enterprise-Class Features

DS220 G2 provides the reliability, availability 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 dual-rotor hot-swap fans help ensure continuous operation.

Embedded Server Management

An integrated baseboard management controller allows DS220 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 DS220 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 4TB memory capacity with RDIMM population (128GB x 32) or 8TB (512GB x 16) with Intel Optane Persistent Memory population.

Read More on Converged and HyperConverged Infrastructure

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Specifications	
Processor	<ul style="list-style-type: none"> Intel 3rd Generation Xeon Scalable processor family Max. thermal Design Power (TDP) Support: 270W Number of Processors: 2 Internal Interconnect: 11.2 gigatransfers per second (GT/s)
Form Factor	<ul style="list-style-type: none"> 2U
Dimensions	<ul style="list-style-type: none"> W x H x D (inch): 17.6 x 3.44 x 30.7 W x H x D (mm): 440 x 87.5 x 780
Chipset	<ul style="list-style-type: none"> Intel C620 (LBG-R) Series Chipset
Storage	<ul style="list-style-type: none"> (24) 2.5" hot-plug NVMe SSD's (16) 2.5" hot-plug SATA or SAS drives + (8) 2.5" hot-plug NVMe or SATA or SAS drives (8) 3.5" hot-plug NVMe, SATA or SAS drives + (4) 3.5" or 2.5" hot-plug SATA or SAS drives
Memory	<ul style="list-style-type: none"> Total Slots: (32) DDR4 RDIMM slots (up to (16) optional Intel Optane PMem) Capacity: Up to 4TB (128GBx32 RDIMM, Up to 8TB with (512GB x 16) Intel Optane PMem Memory Type: 3200 MHz @2DPC (2 DIMMs per channel) Memory Size: 16GB, 32GB, 64GB and 128GB RDIMM and 128GB, 256GB and 512GB PMem
Expansion Slot	<ul style="list-style-type: none"> Option 1: (2) FHHL PCIe Gen4 x16 Slots + (4) FHHL PCIe Gen4 x8 Slots, optional (2) HHHL PCIe Gen4 x8 or x16 Slots Option 2: (2) FHFL PCIe Gen4 x16 Slots (support dual width GPU's) + (2) FHHL PCIe Gen4 x16 Slots, optional (2) HHHL PCIe Gen4 x8 or x16 Slots Option 3: (4) FHFL PCIe Gen4 x16 Slots (support single width GPU's), Optional (2) HHHL PCIe Gen4 x8 or x16 Slots
Network Controller	<ul style="list-style-type: none"> Dedicated 1 GbE management port Optional Network Interface Controller Add in Cards
Front I/O	<ul style="list-style-type: none"> (2) USB 3.0, (1) Power Button and LED, (1) ID Button and LED, (1) Reset Button, (1) Status LED, (1) PFR LED, (1) front VGA
Storage Controller	<ul style="list-style-type: none"> Broadcom SAS3916 4G RAID Mezzanine, Broadcom SAS3816 HBA Mezzanine Intel Virtual RAID on CPU (VROC) Optional Storage Controller Add In Cards
Power Supply	<ul style="list-style-type: none"> (1+1) High efficiency redundant hot-plug 80Plus Titanium 1600W AC PSU (1+1) High efficiency redundant hot-plug 80Plus Platinum 2200W AC PSU
Fan	<ul style="list-style-type: none"> (6) 6076 dual rotor fans (15+1 redundant)
Video	<ul style="list-style-type: none"> Integrated ASPEED AST2500 8MB DDR4 video memory
System Management	<ul style="list-style-type: none"> Redfish v1.8, IPMI v2.0 Compliant, onboard "KVM over IP" support, Baseboard management controller
Rear I/O	<ul style="list-style-type: none"> (2) USB 3.0, (1) VGA port, (1) ID LED, (1) PFR LED, (1) micro USB (COM port), (1) Micro SD, (1) RJ-45 Management Port, (1) Micro SD
Operating Environment	<ul style="list-style-type: none"> Operating temperature: 5°C to 40°C Non-operating temperature: -40°C to 70°C Operating relative humidity: 20% to 85%RH Non-operating relative humidity: 10% to 95%RH
Security	<ul style="list-style-type: none"> Trusted Platform Module 2.0, UEFI Secure Boot, Cryptographic signed BIOS and BMC firmware, Intel Platform Firmware Resilience*
Weight (Max. Configuration)	<ul style="list-style-type: none"> 40KG

Hitachi Vantara



Corporate Headquarters
2535 Augustine Drive Santa
Clara, CA 95054 USA
hitachivantara.com |
community.hitachivantara.com

Contact Information USA:
1-800-446-0744 Global:
1-858-547-4526
hitachivantara.com/
contact

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