

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



DATA SHEET

Hitachi Advanced Server DS220

Flexible Power for Solutions

Capacity and Performance

With a combination of two Intel Xeon Scalable processors and high storage capacity in a 2U rack-space package, Hitachi Advanced Server DS220 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 24 slots for high-speed DDR4 memory, allowing up to 3TB of memory per node (when 128GB DIMMs are used).

Flexible High-Capacity Storage

The server supports up to 12 hot-pluggable, front-side-accessible 3.5-inch serial-attached SCSI (SAS) or serial-ATA (SATA) drives, as well as two optional 2.5-inch rear mounted drives. Hard disk drive (HDD), solid-state drive (SSD) and NVMe options can be supported by the system. The system allows the server to deliver both high I/O performance and high capacity for demanding applications and solutions.



I/O Expansion

Full-height, low-profile and mezzanine PCIe 3.0 expansion slots are available, allowing DS220 to be flexibly configured to add I/O expansion and controller modules. This approach allows the server to optimize the throughput, capacity and I/O performance of the system to support a wide range of enterprise applications.

Converged
Solutions

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Embedded Server Management

An integrated baseboard management controller allows DS220 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.

Enterprise-Class Features

DS220 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.

Hitachi Advanced Server DS220

Processor	Processor Type: Intel Xeon Scalable processor family Max. Thermal Design Power (TDP) Support: 205W Number of Processors: 2 Internal Interconnect: 9.6 or 10.4 gigatransfers per second (GT/s)
Form Factor	2U
Dimensions	W x H x D (inch): 17.3 x 3.4 x 30.7 W x H x D (mm): 440 x 87.5 x 780
Chipset	Intel C624
Storage	Internal storage: Serial ATA (SATA) or serial-attached SCSI (SAS) Front storage: (12) 3.5" (88.9mm) or 2.5" (63.5mm) hot-plug SATA or SAS Rear storage: (2) 2.5" (63.5) hot-plug NVMe, SATA or SAS (optional)
Memory	Total Slots: 24 Capacity: Up to 3TB (128Gx24) of memory for RDIMM/LRDIMM, Up to 6TB (512GBx12) of memory for Intel Optane persistent memory (Pmem) Memory Type: 2933, 2666 MHz DDR4 RDIMM and 2666 MHz Intel Optane Pmem Memory Size: 128GB, 64GB, 32GB, 16GB RDIMM and 512GB, 256GB, 128GB Intel Optane Pmem
Expansion Slot	(1) PCIe Gen3 x 16 SAS mezzanine slot (1) PCIe Gen3 x 16 OCP 2.0 mezzanine slot or PHY card (2) PCIe Gen3 x 8 FHHL or (1) PCIe Gen3 x16 FHHL (3) PCIe Gen3 x 8 FHHL or (1) PCIe Gen3 x16 + x8 FHHL (1) PCIe Gen3 x 16 LP MD-2
Network Controller	LAN on Motherboard (LOM): Dedicated (1) GbE management port Optional Network Interface Card (NIC): Intel X527-DA2 10G SFP+ dual port OCP PHY mezzanine, Intel X557-T4 10GBASE-T quad-port OCP PHY mezzanine
Front I/O	(2) USB 3.0 ports Power, ID and reset buttons Power, ID and status LEDs (1) VGA port
Storage Controller	Intel 624 14 x SATA 6Gb/s ports SATA RAID-0, RAID-1, RAID-1+0
Power Supply	(1+1) High-efficiency, redundant, hot-plug power supply unit (PSU), titanium, 800W or 1200W
Fan	(6) dual rotor fans (11+1 redundant)
Video	Integrated ASPEED AST2500 8MB DDR4 video memory
System Management	Baseboard management controller IPMI v2.0 compliant, onboard "KVM over IP" support
Rear I/O	(2) USB 3.0 ports (1) VGA port (1) RS232 serial port (1) GbE RJ45 management port (1) ID LED (1) MicroSD slot
Operating Environment	Operating temperature: 5°C to 40°C (can support 45°C under certain situation) Nonoperating temperature: -40°C to 70°C Operating relative humidity: 20% to 85%RH Nonoperating relative humidity: 10% to 90%RH
Security	Trusted Platform Module 2.0, UEFI Secure Boot, Cryptographic Signed BIOS and BMC Firmware
Weight (Max. Configuration)	77.16 lbs (35kg)

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DS-470-D MCoE May 2021