

Choose our quad-processor Hitachi Advanced Server DS240, optimized for maximum performance and memory, to deliver compute, memory and storage for your in-memory databases, artificial intelligence (AI) and analytic applications.



DATA SHEET

Hitachi Advanced Server DS240

Scalable Power for Demanding Solutions

Meet the needs of your most demanding high-performance applications with Hitachi Advanced Server DS240 (see Figure 1). With up to four Intel Xeon Scalable Processors and up to 6TB memory capacity in a 2U rack-space package, this server delivers unparalleled compute density and efficiency.

The DS240 is engineered to take full advantage of the groundbreaking Intel Xeon Scalable Processor family, including the highest performance options, to address the growing demands on today's IT infrastructure.

Flexible, High-Capacity Storage

The server features front-side-accessible storage bays supporting up to 16 hot pluggable, serial-attached SCSI (SAS), serial-ATA (SATA) or nonvolatile memory express (NVMe) drives for flexible configuration. These capabilities allow the server to deliver both high I/O performance and high capacity for demanding applications and solutions.



Figure 1. Hitachi Advanced Server DS240

I/O Expansion

A mix of up to eight full-height, low-profile and mezzanine PCIe 3.0 expansion slots are available, which allows the DS240 server to be flexibly configured. Add I/O expansion and controller modules as needed to optimize the throughput, capacity and I/O performance of the system to support a wide range of enterprise applications.

Enterprise-Class Features

The DS240 server provides the reliability, availability and serviceability (RAS) features that business-critical enterprise applications demand. 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 the server 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.

Converged Solutions

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Hitachi Advanced Server DS120

Processor	Processor Type: Intel Xeon Scalable Processor Number of Processors: 4 processors Internal Interconnect: 9.6, 10.4 GT/s
Form Factor	2U
Dimensions	W x H x D (inch): 17.3 x 3.4 x 34.1 W x H x D (mm): 440 x 87.5 x 866
Chipset	Intel C620
Storage	(16) 2.5" hot-plug SATA, SAS, NVMe drives
Memory	Total Slots: 48 Capacity: up to 6TB (128G x 48) of memory for RDIMM/LRDIMM, 12TB (512GB x 24) Intel PMem Memory Type: 2933, 2666 MHz DDR4 RDIMM and 2666 MHz Intel Pmem Memory Size: 128GB, 64GB, 32GB, 16GB RDIMM and 512GB, 256GB, 128GB Intel Pmem
Expansion Slot	(1) PCIe Gen3 x 16 SAS mezzanine slot (1) PCIe Gen3 x 16 OCP 2.0 mezzanine slot (2) PCIe Gen3 x 16 FHHL (2) PCIe Gen3 x 16 HHHL (2) PCIe Gen3 x 8 FHHL
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	(1) USB 2.0 ports Power/ID/status LEDs
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 titanium 2200W PSU
Fan	(5) dual-rotor fans (9+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) 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% Nonoperating relative humidity: 10% to 90%
Security	Trusted Platform Module 2.0, UEFI Secure Boot, Cryptographic Signed BIOS and BMC Firmware
Weight (Max. Configuration)	92lb 10oz (42.1Kg)

SATA = serial advanced technology attachment; SAS = serial-attached SCSI; NVMe = nonvolatile memory express; RDIMM = registered dual in-line memory module; LRDIMM = load-reduced dual in-line memory module; DDR4 = double data rate fourth generation; PCIe = peripheral component interconnect express; FHHL = full height, half length; OCP = Open Compute Project; PHY = physical; IPMI = intelligent platform management interface; HHHL = half height, half length

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