# DCS-R23I2

## Support Intel Xeon Scalable 3rd Generation processors

### Powerful performance, ultra-high storage

Support 2 Intel ® Xeon ® Scalable processor (ICE LAKE) , 32 DDR4 memory ,with memory capacity up to 12TB, and 20 3.5-inch or 39 2.5-inch hot-swappable SAS/SATA hard disks or 24 2.5-inch NVMe solid-state disks. Excellent performance can be achieved through 270W CPU, low-latency NVMe SSD drive and high-power GPU accelerator card.

### Safe and reliable, extremely scalable

Excellent heat dissipation design and fine material selection support stable operation in harsh environment, 5~35 ° C stable operation, up to 45° C, without fear of severe cold and heat. The industry's top expansion capability provides up to 10 standard PCIe 4.0 expansion slots and supports 10 half-height single-width or 4 full-height full-length double-width GPU accelerators card.

### Environmental friendly and energy-saving, easy to manage

Support node management technology to realize power capping and control energy consumption. Adopt 80PLUS platinum-level high-efficiency power supply, support high-voltage direct current HVDC technology, high power conversion efficiency, energy saving and environmental protection, save user electricity expenses, improve energy utilization rate, optional 550W/800W/1300W/1600W/2000W and other power modules of different specifications, optional 220V AC /240V DC/336V DC/-48V DC input.
The motherboard integrates the BMC management module, supports IPMI, SOL, KVM Over IP, virtual media and other management features, and can optionally configure LCD management module.

### Too-less maintenance

The entire system supports tool-less maintenance, enabling easy tasks like case access and installation/removal of components (hard drives, optical drives, PCI expansion cards, fans, and PSUs) without requiring additional tools.

**DCS-R23I2** is a 2U dual-socket rackmount server independently developed based on the INTEL Whitley platform, with flexible configuration and multi-module design ideas, which can be widely used in cloud computing, virtualization, database, big data, artificialintelligence and other applications. DCS-R23I2 supports 2 third- generation Intel ® Xeon ® Scalable processor (ICE LAKE), 32 DDR4 memory slots, 10 PCIe 4.0 expansion slots, and 39 2.5-inch or 20 3.5-inch disk slots. Integrated BMC remote management function and power capping technology can effectively reduce operating costs and improve return on investment.

- Virtualization
- Big Data
- Storage-centric applications
- Data Warehousing/Analytics
- Customer Relationship Management (CRM)
- Enterprise Resource Planning (ERP)
- Virtual Desktop Infrastructure (VDI)
- High-performance computing and deep learning
- Cloud gaming and video processing

25 x 2.5” Hot-swap drive bays

# DCS-R23I2

## Specification

| | |
|---|---|
| CPU | Dual 3rd Gen Intel® Xeon® Scalable Processors, up to 270W |
| Memory | 32 DDR4 DIMM slots,16 memory channels in total<br>Supports 32 DDR4 RDIMMs/LRDIMMs with a maximum rate of 3200MT/s with ECC<br>Single capacity 8GB, 16GB, 32GB, 64GB, 128GB, 256GB, 512GB<br>Up to 12.0TB system memory (needs to be paired with a specific CPU model and Intel DCPMM) |
| Controller | Onboard integrated 6Gb/s SATA controller, supports RAID 0/1/10/5<br>Optional 12Gb/s SAS HBA card and SAS RAID card based on standard PCIe slot |
| Storage | Front: up to 12 Hot-swap 3.5” or 25 Hot-swap 2.5” ,and up to 24NVME hard disks<br>Rear: up to 4 Hot-swap 3.5”+4 Hot-swap 2.5” or 10 Hot-swap 2.5<br>Built-in: support 4 Hot-swap 3.5” (compatible with 2.5-inch)<br>Support 2 M.2 (2280, PCIe3.0 x2), optional support 1 SD module (support RAID1 dual Micro SD) |
| PCIe slots | Up to 10 PCIe4.0 expansion slots |
| GPU | Up to 4 FHFLDW GPU cards or 10 HHHL GPU cards |
| Network | 1*1GbE management port<br>1*OCP3.0 NIC network sub-card , supports NC-SI:<br>Optional 2x1GbE/4x1GbE/2x10GbE/4x10GbE/2x25GbE network Mezzanine Card and standard PCIe network card |
| Management | Integrated BMC management chip, supporting IPMI2.0, Redfish, SOL, KVM, virtual media and other functions<br>Optional LCD management module |
| Security | Support lockable cover,<br>Optional TPM 2.0/TCM security module, compliant with FIPS 140-2. Firmware with encrypted signature according to NIST SP800-147B specifications |
| I/O Ports | Front 1*D-Sub VGA (DB15), 2*USB3.0, 1*LCD MiniUSB<br>Rear 1*D-Sub VGA (DB15) BIOS, 2*USB3.0, 1*RJ45 management port, 1 COM, 1 OCP NIC3.0 slot |
| System Cooling | 4*8038 N+1 redundant fans, support hot swap |
| Power Supply | 2x hot swap/redundant 100 to 240VAC, and 50 to 60Hz: 550W/800W/1300W/1600W/2000W 80 PLUS Platinum;<br>Optional 240V DC/336V DC/-48V DC 80 PLUS Platinum |
| Environment | Standard working temperature: 5°C to 35°C (without direct sunlight) Extended operating temperature: 5°C to 40°C (limited configurations are met)<br>Transport storage temperature: -40°C to 65°C |
| Dimension | 2U rackmount chassis, width 447mm x height 87mm x depth 808mm |
| BIOS | BIOS in Flash Memory non-volatile and electrically reprogrammable memory, with UEFI technology. It complies with S.M.A.R.T and NIST SP800-147B standards. The BIOS includes server-related information such as the equipment's serial number and have editable fields for custom information input, like identification (Asset Tag) |
| Graphic -VGA | Aspeed AST2500 support 1920X1200@60Hz. https://www.aspeedtech.com/server_Aspeed/ |