

## DCS3I2-2R

### 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.

**DCS3I2-2R** 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, artificial intelligence and other applications. DCS3I2-2R 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

**DCS3I2-2R****Specification**

CPU	Dual 3rd Gen Intel® Xeon® Scalable Processors, up to 270W
Memory	32 DDR4 DIMM slots,16 memory channels in total Supports 32 DDR4 RDIMMs/LRDIMMs with a maximum rate of 3200MT/s Single capacity 8GB, 16GB, 32GB, 64GB, 128GB, 256GB, 512GB 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 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 Rear: up to 4 Hot-swap 3.5”+4 Hot-swap 2.5” or 10 Hot-swap 2.5 Built-in: support 4 Hot-swap 3.5” (compatible with 2.5-inch) 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 1*OCP3.0 NIC network sub-card , supports NC-SI: 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 Optional LCD management module
Security	Support lockable cover, 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 Rear 1*D-Sub VGA (DB15) BIOS, 2*USB3.0, 1*RJ45 management port, 1 COM port, 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; 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) 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. <a href="https://www.aspeedtech.com/server_Aspeed/">https://www.aspeedtech.com/server_Aspeed/</a>

