

SC6100

2U 24 SSD High Availability All-Flash PCIe® Gen 5 Storage Controller



SC6100 is a next-generation 2U rackmount all-flash storage controller for the enterprise. It is powered by two AMD EPYC™ 9004 series of high-performance microprocessors based on the Zen 4 microarchitecture and supports up to 24 dual-port U.2 PCIe Gen 5 solid state drives (SSDs). The SC6100 delivers extreme performance with high availability for the most demanding enterprise application workloads.

The platform is ideal for:

- File Shares
- Database
- Virtual Desktop
- On Line Transaction Processing (OLTP)
- High Performance Computing (HPC)
- High Frequency Trading (HFT)

FEATURES

- 2U chassis, fits 19" rack
- 2x hot-swap computing nodes
- 24x U.2 PCIe Gen 5 NVMe SSDs
- Dual redundant power supplies
- 2x PCIe Gen 5 (x16) low profile slots per node + 2 PCIe Gen 5 (x8) slot
- BBU available for node power in the event of AC power loss

NODE FEATURES

- Built in socket support for AMD's EPYC 9004 series of high-performance microprocessors based on the Zen 4 microarchitecture
- 12x DDR5 DIMMs
- Support BMC (ASPEED AST2600)
- 4x Standard HHHL PCIe Gen 5 slots
- 2x PCIe Gen 5 x16 slots + 2x Gen 5 x8 slot
- 2x 10GbE RJ45 + 1x 1GbE RJ45 (for BMC)
- 1x USB3.0 ports
- 1x Service Port (USB Type-C)

POWER AND COOLING

- Two 2400W (Titanium 80+ efficiency) CRPS power supply units
- 200-240Vac, 47-63 Hz
- 1+1 redundant, hot-swappable
- 14, 40 mm x 56 mm fan, hot-swapped with compute nodes (7 per node)

PHYSICAL DIMENSIONS

- Height: 87 mm (3.43")
- Width: 446 mm (17.56")
- Depth: 874 mm (34.41")



Enterprise-Class Quality. Cloud Economics.

ENVIRONMENTAL: OPERATING

- Temperature: 5°C to 35°C
- Humidity: 8% to 80% RH
- Altitude: 0 to 950 m (De-rate temperature 1°C per 300 m above 950 m)
- Shock: 10G, 5ms half sine pulse width
- Vibration: 0.278 Grms; 5 ~ 500Hz; Random Vibration Spectrum
- Sound power: (23+/- 2°C) <=8.6 Bels

ENVIRONMENTAL: NON-OPERATING

- Temperature: -40°C to 60°C
- Humidity: 8% to 95% RH
- Altitude: 0 to 12,000 m
- Shock: 35G, 152 in/sec; Trapezoidal Shock
- Vibration: 1.04 Grms with Power Spectrum; 2 ~ 200 Hz; (transit)

APPLICATION TOPOLOGY

- Address mainstream applications with AMD’s EPYC™ 9004 series of high-performance microprocessors per node
- Extremely low latency and high bandwidth
- Delivers 737.28TB using 30.72TB NVMe SSD (x 24)
- 4x standard HHHL PCIe Gen 5 cards
- 2x PCIe Gen 5 x16 slots + 2x Gen 5 x8 slot
- 1x USB 3.0
- 1x USB Type-C (Service Port)
- 2x 10GbE RJ45 + 1x 1GbE RJ45 (for BMC)
- 1x VGA port

APPROVALS

- EMC: EN 55032 Class A, EN55035, EN 61000-3-2 EN 61000-3-3, FCC part 15 Class A, VCCI Class A ICES-003 Class A, GB/T9254 Class A
- Safety: IEC/EN/UL/CSA 62368-1, GB4943
- Environment: RoHS, REACH, WEEE, ERP Lot9X

Note: All specifications and figures are subject to change without prior notice.

