

PRODUCT BRIEF | 2U/56-Bay Dual-Node NVMe Storage Server VSS2562

High Performance, High-Capacity Enterprise Class Storage Using NVMe PCIe v4.0

The Viking Enterprise Solutions (VES) VSS2562 storage server offers fifty-six (56), 2.5" NVMe drives (U.2) combined with two, redundant server modules. Each server has access to all fifty-six NVMe drives with dual port devices.

The VES patented VSS2562 is a dense, highavailability storage solution that provides up to 3.3 PB's in a 2U form factor using 60 TB drives.

The enclosure contains two hot swappable server modules. Each of the server modules is a single socket AMD Milanbased server with two x16 PCIe add-in card slots, and up to 8 DIMMs per CPU. The VSS2562 fits into an industry standard 19" wide by 1m deep rack. Its flexible configuration allows it to be deployed in a variety of applications.

FEATURES

- ► 56 Hot-pluggable NVMe drives
- ► HA system with each server able to access all of the drives
- Management interface to control drive access & provisioning
- ► Hot-pluggable servers, power supplies, fans & drives
- SFF-8639, PCIe Gen 3/4 NVMe (U.2) drive support (up to 18W per drive)
- ▶ PCIe Gen4 NVMe support for 20 SSD slots
- Single and dual port NVMe drive support. Single port drives are only seen by one server
- Resilient environmental specification with up to a 35C ambient inlet
- Standard chassis customization & branding available

VES Portfolio of Storage and Storage Server Solutions

VES offers a broad portfolio of product offerings, including:

- Leading edge performance NVMe SSD arrays
- Leading edge high performance and high availability solutions
- Industry leading cold storage and object storage solutions
- Purpose built compute and storage platforms

Working with VES provides you with an accelerated time-to-market for your server and storage product needs, and allows you to leverage our portfolio of proven product designs.

Customers are backed by an industry leading design team and a world-class Electronics Manufacturing Services organization.

A side load enclosure with 56 U.2 NVMe drives. Each server has access to all 56 drives providing a highly available system.



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 AC Power Input voltage: 200-240VAC Input frequency: 50-60 Hz Power source: redundant 2.7kwatt power supplies Input current: 15 amps max @ 180V AC per power supply Inrush current: 40 amps peak per power supply Maximum system continuous 	 Hot-Swappable Components Two Server Modules Eight server fans Four SSD fans Two AC to DC power supplies – Each supply provides up to 2700W of power Two independent AC power inputs 	 Firmware IPMI and Redfish 1.16 management CLI and GUI control for drive management & status of the enclosure 	 2U Enclosure Dimensions: 3.2 in. H X 17.6 in. W X 34.42 in. D (81 mm H X 448 mm W X 874 mm D) Weight with drives: 85 lbs (39 kg) max Railkit with CMA Failure Notifications
DC output power rating: 2.7kwatts	 56 NVMe drives (hot pluggable) 		
 Failure Notifications Status & fault LEDs for the enclosure, drives & servers Performance Up to 128 GB/s bandwidth between both servers Capacity 56-drive capacity U.2 PCIe 4.0 NVMe drives Dual port drive Up to 18W per drive 	 Operating Environment Temperature: 5° to 35°C Relative humidity: 20% to 80% (non-condensing) Altitude: -200 to 10,000 ft Shock: 3G at 11ms, 1/2 sine wave pulse Vibration: 0.10G at 5 Hz to 500 Hz 	 Non-Operating Environment Temperature: -40° to 60°C Relative humidity: 10% to 90% (non-condensing) Altitude: -200 to 40,000 ft Shock: 10G at 11ms, 1/2 sine wave pulse Vibration: 0.5G at 5 Hz to 500 Hz 	 Drive Partitioning Management software controls the visibility & access to each drive One port of a single port drive can be hidden for data protection
 Safety Standards IEC 62368-1:3rd Ed, 2021-10-22 CAN/CSA C22.2 No. 62368-1:19, 3rd Ed, 2021-10-22 Quality Standards Manufactured under an ISO 9002 registered quality system 	 Servers One or two Server modules AMD Milan processors In High Performance configuration Each server takes 2x x16 PCIe v4 add in card OR In High Availability configuration Each server takes 1x OCP v3 and 1x HHHL PCIe Gen4 add in card 	Electromagnetic Emissions & Immunity Standards > EN 55032:2015 + A11:2020 > EN 55035:2017 + A11:2020 > EN 61000-3-2:2014 > EN 61000-3-2:2013 +A1:2019 > FCC 47 CFR PART 15 CLASS A SUBPART B > CANADIAN ICES-003 ISSUE 7:2020 > CANADIAN ICES-Gen Issue 1 +A1:2021 > VCCI-CISPR 32:2016 > CE Mark	 Monitoring & Reporting Monitors temperature, power, cooling (including fan speed control), drives, as well as error rates & quality of service Reporting of all serial number, part number, & revisions of the server modules, power supplies, drives & chassis



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