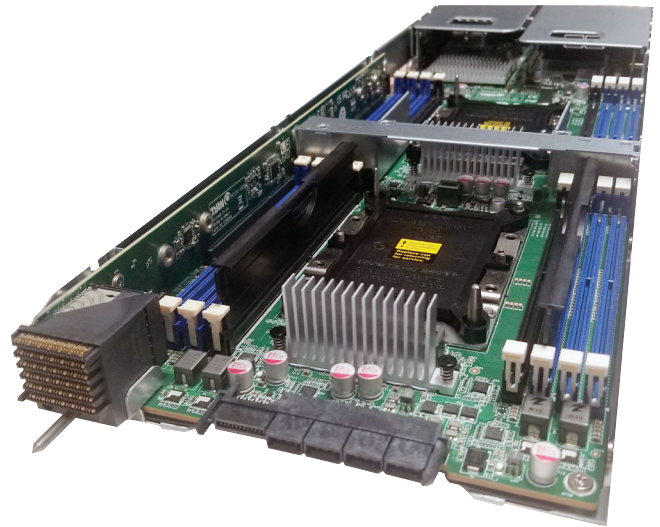# VIKING™
Enterprise Solutions

PRODUCT BRIEF | 2U-24 Bay NVMe Quad Storage Server

NSS-2247C

High Performance Enterprise Class Storage Using NVMe

The Viking Enterprise Solutions (VES) NSS-2247C Ultra High Performance NVMe/PCIe Solid State Flash Array Quad Server combines twenty four (24) 2.5" NVMe drives with four dual socket Intel Xeon™ class Cascade Lake servers. The NSS-2247C provides ultra low latency access to the flash array while supporting up to 4 x 100Gb Ethernet connectivity. The NSS-2247C maps six NVMe drives and Hot Plug to the four servers to each.

Developed as high performance servers for tier one HPC, caching, and hyper-converged workloads requiring high I/O, high bandwidth and/or sub millisecond access latency in a small form factor.

Quad Servers
- Four dual socket servers provide extreme compute power in addition to ample back to back I/O connectivity

Hot Plug Functionality NVMe Drives
- The NSS-2247C architecture supports drive Hot Plug without taking offline the unit or any of the other drives

Robust Enterprise-Grade Functionality
- The NSS-2247C offers robust enterprise-grade availability, reliability and serviceability. For easy swap-out, field-replaceable units (FRUs), including fans, SSD drives, interposers, power supply units (PSUs) and server modules

NSS-2247C

High Performance

Leverages the greater speed of PCIe v3/NVMe SSDs compared to SAS/SATA SSDs, with sub-millisecond access time in a 2U form factor. Provides up to 400Gb/s Ethernet connectivity.

2U Rackmount Enclosure
- Net weight: 67 lbs
- Height: 86.8mm
- Width: 443.8mm
- Depth: 860mm (33.8")

Memory (per node)
- (8+8) DDR4 DIMM slots (6 memory channels per CPU)
- Supporting up to 1,024GB RDIMM/ LRDIMM 2666 memory

PCIe Expansion Slots (per node)
- (1) HH/HL PCIe G3 x16 slot
- (1) HH/HL PCIe G3 x8 slot

Storage (per node)
- (6) hot-swap 2.5" U.2 NVMe drive bays
- (2) 2280/22110 NVMe M.2 ports (CPU 1 root ports 1A and 1B)

Monitoring & Reporting
- Monitoring for temperature, power supplies & fans including fan RPM monitoring, SSDs & server units

Network (per node)
- 1000 BaseT dedicated IPMI Port
- PCIe v3 x16 OCP v2.0 LAN Mezzanine Type 1 slot

AC Power
- Input AC 200 - 240V 13 Amp

Hot-Plug Field Replaceable Units
- 24 independent PCIe v3 NVMe SSDs with interposers & carrier
- 1+1 redundant 2200W power supply units
- 4 hot-swappable server modules
- 4 8086 hot-swap fans

Drive Configuration
- Four groups of six drives (default for most balanced affinity)
- Flexible Configuration
  - Single port (PCIe x4)/ dual port (2x PCIe x2) NVMe drive support

Safety Standards
- IEC/EN 60950-1 CB/LVD

Environmental Protection
- RoHS 6/6 compliant

Monitoring & Reporting
- Monitoring for temperature, power and cooling drives

VIKING™
Enterprise Solutions

For price, availability and sales information, please email us at sales@vikingenterprise.com or call us at +1 (408) 964-3555.