

PRODUCT BRIEF | Single or Dual Node Storage Server

NSS-1160G-2N

NDS-1160

The Viking Enterprise Solutions (VES) NDS-1160 is a flexible platform supporting single or dual servers with industry standard storage devices ranging from 3.5" HDD to 2.5" SATA/SAS SSD and U2 2.5" PCIe NVMe. The server boards are dual socket Intel Xeon™ class Haswell or Broadwell (E5-2600 V3/V4) designs supporting up to 2TB of system memory configuration and 145W processors. The drive interface is defined by custom expansion card or add-on standard host bus adapters featuring either SAS IO controllers or PCIe retimers. Each server board also supports up to 2 standard PCIe add-on cards and one OCP format.

The system can be deployed in various configurations such as single or dual server computer node or storage servers attached with SATA, SAS or NVMe storage options. The customer will benefit from maintaining common FRUs such as server boards, power supplies, fans and drive carriers for the different configurations all in a small 1U package. The system is front serviceable and toolless features reducing service time.

Single/Dual Servers

Each server can be independently serviced without taking the node completely off-line.

Drive Bays

In a single server configuration, 12 drive bays are available. For dual server configuration, 8 drive bays available. Each drive bay can accommodate 1 LFF or 2 SFF drives.

Serviceability

Front service off all FRU. Toolless/carrier less drive install and removal.

1U-12 LFF/24 SFF Bay, Single/Dual Node Flexible Configuration Storage Server



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1U Rackmount Enclosure

- ▶ Dimensions: 19 in. x 39.5 in. x 1.75 in.
- ▶ Weight for VES NDS-1160 w/12 HDDs Single Shipping Pack: 63 lbs.
- ▶ Weight for VES NDS-2601 without SSDs for Rack
- ▶ Installation: 64 lbs. typical (no rail kit, drives, or carriers)

Hot-Plug Field Replaceable Units

- ▶ Carrier-less individual drive serviceable
- ▶ N+1 redundant 550-1600W** power supply units
- ▶ N+1 fan service for each motherboard & system

Safety Standards

- ▶ IEC/EN/UL/CSA 60950-1, 2nd Edition

AC Power

- ▶ Input voltage: 90-264V AC 47-63 Hz

Monitoring & Reporting

- ▶ Monitoring for temperature, power supplies and fans including fan RPM monitoring & control, SSDs and server units
- ▶ 1GbE data center connection – RJ45 for master server

Drive Configuration

- ▶ Twelve or eight 3.5" drive pods in single or dual server configuration, respectively
- ▶ Each drive pod receives one 3.5" HDD, two U2 PCIe NVMe 2.5" SSDs (max eight per server board)
- ▶ Two additional HHHL NVMe drives supported through PCIe riser card
- ▶ Additional SAS drives supported through optional SAS HBAs

Ethernet Connectivity

- ▶ Up to 400 Gb/s Ethernet connectivity via OCP & PCIe interface in dual server configuration

Environmental Protection

- ▶ RoHS & WEEE compliant

**based on 64GB DDR4 DIMMs*

*** PSU configuration depending on overall system configuration for lowest TCO*

