# ONYX Series

## Solutions Brief

## HIGH DENSITY UNIFIED STORAGE SOLUTIONS

### Store More, Safely Across All Platforms

The Viking Enterprise Solutions (VES) ONYX Series of dense network attached storage solution is designed for high capacity, storage-hungry environments. The turnkey ONYX 10400S large capacity, small 5U footprint lowers deployment costs while providing seamless, multi-petabyte scaling via multiple JBOD enclosures. The included feature-rich data management system (VESq) is optimized for simple expansion and provides reliable, multi-layer security for bulletproof data protection.

| Backup & Archive | Video Surveillance |
| Online Disaster Recovery | Media Content Storage |

## Protect Data from Threats

Based on Linux and 128-bit ZFS, Viking Enterprise Solutions' VESq data management system is enhanced with features that make the ONYX Series a high-performance, efficient, superior network attached storage device. A variety of built-in backup applications help with rapid granular recovery and disasters, while native self-healing protects against data corruption. VESq ensures that large quantities of stored assets are maintained long-term with complete data integrity.
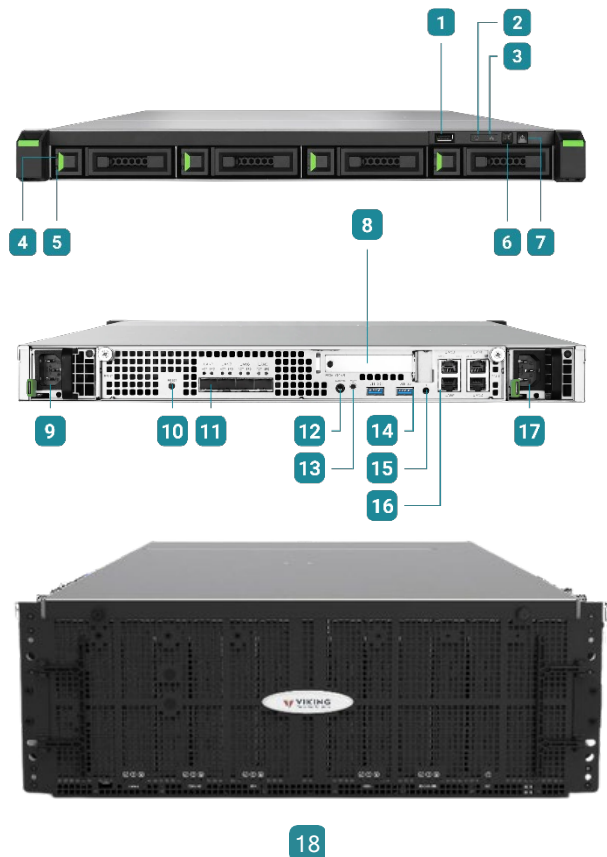
# Unified Storage for All Platforms

- Support for multiple protocols via AFP / CIFS / FTP / iSCSI / NFS / WebDAV for all applications.

- Support for Windows AD and LDAP Directory Services and Windows ACLs and advanced ACL for general file services.

- Built-in quad 10GbE ports to accelerate I/O-intensive workloads.
- Replicate between multiple ONYX Series appliances for data redundancy and disaster recovery purposes. Changes to content will be replicated to other ONYX Series appliances.

- All-inclusive enterprise data service features.

# Delivering Superior Storage Solutions, Affordably

Viking Enterprise Solutions (VES), a product division of Sanmina Corporation, brings the benefits of our years of proven experience in designing the latest technologies, world-class development engineering, global manufacturing and supply chain leadership. Leveraging our supply chain capability and reach, we deliver streamlined operations, bringing you both affordable and high quality storage solutions, solving modern, data challenges.

1. USB Port
2. Enclosure Status LED
3. Enclosure Access LED
4. Disk Drive Status LED
5. Disk Drive Power LED
6. UID (Unique Identifier) Button / LED
7. Enclosure Power Button / LED
8. Host SAS card
9. Power Supply Unit 1
10. Reset to Factory Default Button
11. 10 GbE (SFP+) LAN Ports
12. Console Port
13. Buzzer Mute Button
14. USB Port
15. UID (Unique Identifier) LED
16. 2.5 GbE (RJ45) LAN Port
17. Power Supply Unit 2
18. High Density Expansion Enclosure

# ONYX Series



### CPU
Processor — Intel® Xeon® 64-bit 4-core

### MEMORY
Memory Module Pre-installed — 16 GB

### STORAGE
Maximum Drive Bays with Expansion Unit — 408
Maximum Raw Capacity — 8160 TB

### CONNECTIVITY PORT
2.5 GbE RJ45 LAN Port — 4
10 GbE SFP+ LAN Port — 4 (Includes 2 x SFP + transceivers)

### EXTERNAL PORT
USB Port — 1 (front) / 2 (rear)
Others — Console port x 1

### SOFTWARE DEFINED STORAGE SPECIFICATIONS

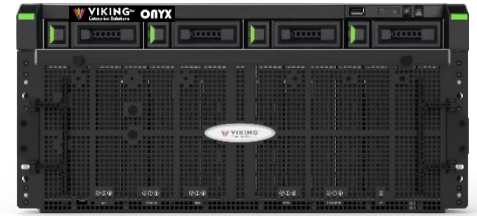| | |
|---|---|
| Storage OS | VESq |
| RAID Level Support | 0, 1, 5, 6, Z3, 10, 50, and 60 |
| Storage Efficiency | Thin provisioning / Deduplication / Compression |
| Software Acceleration | Hybrid SSD cache / Auto tiering |
| Data Protection  Remote | Snapshot / Local volume clone |
| Replication  Security | Rsync / Xmirror / Asynchronous |
| Support Protocols | SED / WORM / Pool encryption |
| Management | AFP / CIFS / FTP / iSCSI / NFS / WebDAV |
| | Web UI / Serial console / RESTful API / SES / LCM |

### PHYSICAL DIMENSIONS
Dimension (H x W x D) (in) — Head Node - 1.7 x 17.2 x 20.1
Expansion Enclosure - 6.9 x 17.2 x 39.5
Total Gross Weight (lbs.) — 305

### OTHERS
Power Supply Units — Head Node - 450 W x 2 (80 PLUS Platinum)
Expansion Enclosure - 1600W x 2 (N+1)
Expansion Input voltage — 200 - 240V AC
Expansion Input current — 9.4 amps max @ 200V AC per power supply  CE /
Certification — FCC /BSMI
Standard Warranty — 3 years

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## ABOUT VIKING ENTERPRISE SOLUTIONS

Viking Enterprise Solutions, a product division of Sanmina Corporation (NASDAQ: SANM), provides advanced data center products including solid-state memory and disk-based storage server appliances, JBOD storage systems and  other products for a variety of data center and storage applications. Viking Enterprise Solutions' award-winning products are tailored for integration into OEM, system integrator and data center products, reducing development  and operating costs while improving time-to-market. More information is available at www.vikingenterprisesolutions.com.



## VIKING
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