

HVE-VELOCITY

High Availability Dual Enclosure SAN



Powered by
open-e
 JovianDSS



FEATURES:

- High-availability storage server optimized for mission-critical storage applications
- Fully redundant, fault-tolerant system supporting hot swappable controller nodes and storage drives
- Two compute nodes and Active-Active configuration each supporting two Intel® Xeon Processors E5-2600 v4 product family and up to 512GB of DDR4 memory
- 10GBE, PCIe NTB or SAS link between nodes for communication and fail-over
- Built-in LSI SAS3x36R SAS expander per node
- Intel® Trusted Platform Module (TPM) header to support Intel® Trusted Execution Technology (TXT)

SOFTWARE DEFINED STORAGE

HVE-VELOCITY is powered by Open-E JovianDSS which is a high-performance ZFS file system designed especially for enterprise-sized software defined storage environments. With its unique features, the product ensures highest data reliability and integrity for optimal data storage, protection, and recovery. It addresses the needs of enterprise users seeking a unified NAS and SAN solution with thin provisioning, compression, and deduplication.

FAULT-TOLERANCE STORAGE PLATFORM

HVE-VELOCITY platform is a 2U 24-SFF-Bay cluster-in-a-box solution that provides high-availability in an active-active configuration. This appliance is engineered with two Intel® S2600TP server boards (one board per node), each supporting dual Intel® Xeon® processors in the E5-2600 v4 product family. Both nodes process I/Os and provide simultaneous and balanced access to the logical devices, which significantly increases overall cluster performance. When failover occurs, the secondary node automatically takes over the devices, client connections, and all processes/services of the system. It provides protection from loss of revenue when access to data resources and critical business applications are disrupted. The HVE-VELOCITY platform eliminates SPOFs (single points of failure). The all 12G SAS SSD design allows faster access to data. It is optimized for mission-critical, enterprise-level storage applications.

RECOVER YOUR DATA

Data protection prevents data loss and minimizes the recovery time with high-speed disaster recovery. The HVE-VELOCITY lowers the recovery point objective (RPO) and recovery time objective (RTO) in each backup strategy. It allows setting up an application backup with a retention interval as a disaster recovery plan for virtual environments based upon VMware. The software does not require the installation of any backup agent. With the HVE-VELOCITY, servers with crucial data can be easily and instantly restored in case of an unexpected disaster.



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HVE-VELOCITY Specifications



HVE-VELOCITY SAN

- ✓ Dual enclosure Active-Active systems
- ✓ Fully redundant, hot-swappable
- ✓ Intelligent manageability, integration, and openness

Product Specifications

Form Factor:	2U rack server
Processors:	Intel® E5-2620 v4 x 2
Chipset Platform:	Intel® C612 Chipset
Storage:	External: 24 x 2.5-inch SAS/SATA hard disk Internal: 1 x SATADOM Operating Disks per node
RAID support:	Intel® RSTe SW RAID 0/1/10/5
Network ports:	(2) 10Gbe RJ45 and (1) 1Gbe RJ45 IPMi (SFP+ Available)
PCIe expansion:	(8) PCIe 3.0 5x8 (low profile)
Server Management:	<ul style="list-style-type: none"> • Onboard Server Engines LLC Pilot III • Support Intel® Remote Management Module • Intel® Light-Guided Diagnosis on field units • Support for Intel® SMS and Intel IPNM
Expander Boards:	(2) 36-port 2GB SAS expander board with 3 SFF-8644 connectors
Motherboard:	Intel® Server Board S2600TP
Fan Modules:	(2) 6056 fan modules
Power supply units:	(2) hot-swappable 1200W with support for 1+1 redundancy
Memory:	128GB per node (16 DIMM slots available per node)
Bootable OS:	16GB iSLC (Innodisk) SATADOM x 2
HBA:	(2) 9300-8i + (4) 8643-8643 cable
Backplane:	(1) x 24-port 12GB SAS backplane
Rear IO:	<ul style="list-style-type: none"> • (1) RJ45 IPMi port • (2) RJ45 • (2) USB 2.0 Type A • (1) VGA • (1) Mini SAS HD
Video:	Integrated M atrox G200D2 Graphics Controller
Operating Temp:	Temperature: 0°C to 35°C Humidity: 5% to 95% non-condensing
Gross Weight:	41kgs / 90lbs
Dimensions: (H x W x D)	482.6 mm x 815 mm x 88 mm (19 in x 32 in. x 3.5 in.)