VECTOR DATA™

Vault 2700 Series

Hybrid Storage Systems

Product Overview

Designed to support more of your IT needs, Vector Data Vault 2700 hybrid storage arrays offer more value than other systems in their class. Vault 2700 systems running NetApp ONTAP® storage software simplifies the task of managing growth and complexity by delivering high performance, providing leading integration with the cloud, supporting a broader range of workloads, and seamlessly scaling performance and capacity. You can build a foundation for a data fabric that leverages flash acceleration and public cloud storage resources to cost-effectively handle dynamic storage needs. For organizations that are concerned about budgets today and meeting challenging IT needs in the future, Vault 2700 is the choice.

Perfect for NFV (network function virtualization), Vault 2700 offers full support for VMware, Linux KVM, OpenStack, and other leading virtualization platforms, letting you combine the performance and security of Netapp ONTAP® with the flexibility and unified management of cloud deployments. Vault 2700 is the perfect foundation for SDN and the network of the future.

Delivers the most value for your IT investment

Vault 2700 hybrid storage arrays are built to deliver robust capabilities, so your investment supports the broadest possible set of IT needs. Each Vault 2700 delivers:

- **Increased price performance value.** Flash Cache™ intelligent data caching, based on NVMe technology, is integrated into all Vault 2700 models to accelerate workloads, reduce latency, and deliver 30% higher performance compared to the previous Vault 2600 generation.
- **Best-in-class storage efficiency.** Enhanced inline compression delivers efficiency and storage savings without compromising performance. Along with inline deduplication, inline compaction, thin provisioning, and other data reduction technologies, these features deliver leading storage efficiency.
- **Advanced IT integration options.** Vault 2700 supports your choice of eight flexible, unified target adapters (UTA2s) or eight 10GBase-T ports, as well as four 10GbE ports.

- **Expanded enterprise-class data management.** Leverage NDO, adaptive QoS, and superior virtualization integration, which are usually offered only in the highest-end systems, to meet complicated IT needs.
- **Security.** Easily, efficiently protect your at-rest data by encrypting any volume on Vault systems with NetApp Volume Encryption. No special encrypting disks required. Plus, multifactor authentication increases security, and cryptographic shredding enables GDPR compliance.
- **Scalable NAS containers.** With NetApp FlexGroup, support very large NAS environments in a single namespace that can scale up to 20PB and 400 billion files with consistent high performance and resiliency.

Key Features and Benefits

Perfect for NFV

- Full support for VMware, OpenStack, and other leading virtualization platforms

High altitude and extreme temperature environment certification available

- Optional NEBS Level 3 and ETSI certification, MIL-STD-810G and EN50155 certifcation, AC and DC power options available

Delivers Best Value for Your IT Investment

- Achieves aggressive price/performance with 30% higher performance
- Serves SAN and NAS workloads with advanced unified architecture
- Meets more business needs with best-in-class data management
- Increases return on investment with enhanced storage efficiencies

Simplifies Storage Operations

- Allows you to upgrade software and add or retire storage with zero downtime
- Streamlines application provisioning
- Handles complicated management tasks

Grows with Your Changing Needs

- Lets you start small and grow big, invest in what you need, and add without disruption
- Connects seamlessly to the cloud with leading integration
- Builds a foundation for a data fabric across flash, disk, and cloud

Vault 2700 Technical Specifications

Specifications per HA pair	Vault 2750 / 2720
Maximum raw capacity (depends on drive offerings)	1243TB / 1440TB
Maximum drives	144 /144
Controller form factor	2U 24 internal drives / 2U 12 internal drives
OS version	ONTAP 9.4 and later / ONTAP 9.4 and later
Shelves and media	Contact Vector Data for current information.
Storage protocols supported	FC, FCoE, iSCSI, NFS, pNFS, CIFS, SMB

Specifications for scale-out configurations (hybrid and disk-only configurations)	Vault 2750 / 2720
NAS scale-out	1–24 nodes (12 HA pairs)
SAN scale-out	1–12 nodes (6 HA pairs)
Maximum drives	1728 / 1728
Maximum raw capacity	15.0PB / 17.1PB

Vault 2700 series software: Software included in ONTAP 9

Storage protocols: All supported data protocol licenses (FC, FCoE, iSCSI, NFS, pNFS, CIFS/SMB)

Efficiency: NetApp FlexVol® deduplication, compression, compaction, and thin provisioning

Availability: Multipath I/O

Data protection: RAID-TEC, RAID DP®, and Snapshot technologies

Performance: Adaptive QoS

Scalable NAS container: FlexGroup

Management: ONTAP System Manager and Active IQ Unified Manager

Vault 2700 series software: Optional

FlexClone®: Instant virtual copies with file and volume granularity

SnapMirror®: Integrated data replication technology for simple, efficient, flexible disaster recovery and backup use cases

SnapRestore®: Data recovery software to restore entire Snapshot copies in seconds

SnapCenter®: Unified, scalable software and plug-in suite for application-consistent data protection and clone management

Vault 2700 series software: Optional

SnapManager® suite: Application- and virtual machine–aware backup and cloning

OnCommand Insight: Infrastructure analytics platform that provides optimization, troubleshooting, monitoring, and cost analysis for your IT infrastructure

• SnapMirror Synchronous: Synchronous replication for zero data loss protection (RPO=0)

• FlexCache: Accelerate read performance with cached datasets within a cluster and at remote sites.

• SnapLock®: Compliance software for write once, read many (WORM)–protected file data

• Volume Encryption: Granular, volume-level data-at-rest encryption

System Environmental Specifications	
Thermal Rating (at 110V)	1,219 BTU (typical) 1,697 BTU (worst case)
Weight	55.56 lbs
Height	3.35" (8.5 cm), fits into 2U space
Width	19" IEC rack-compliant (17.6", 44.7 cm)
Depth (without cable management brackets)	19" (48 cm)
Operating Temperature, Altitude, and Relative Humidity	0° C to 40° C (32° F to 104° F); at <= 3,000 m (at <= 10,000' feet) elevation; 20% to 80% relative humidity, noncondensing
Nonoperating Temperature and Relative Humidity	-40° C to 70° C (-40° F to 158° F); at </= 12,192 m (at</= 40,000') typical of unconditioned airplane cargo bay, 8% to 80%
Power supply / cooling fans	Dual, hot pluggable, integrated power supplies

Safety Agency Approval

CAN/CSA C22.2 N0. 60950-1	
UL 60950-1	
IEC 60950-1	
EN 60950-1	**Safety of Information Technology Equipment**

Telco NEBS/ETSI Certifications

Telcordia GR-63-CORE NEBS Requirements: Physical Protection
Telcordia GR-1089-CORE EMC and Electrical Safety
Telcordia SR-3580 Level 3
ETSI ETS 300-019 Physical Protection and ETSI ETS 300-753 Acoutic Noise

Military Specifications

Optional MIL-STD-810 F/G compliance

Electrical Safety/Bonding and Grounding

Electrical Safety	**ATT-TP-76200 GR-1089-CORE Section 7**
Bonding and Grounding	**ATT-TP-76200 GR-1089-CORE Section 9**

System Physical Environmental

Airborne Contaminants	**ATT-TP-76200 GR-63-CORE Section 4**
Earthquake, Shock and Vibration	**Zone - 4, ATT-TP-76200 GR-63-CORE Section 4**
Fire Resistance	**ATT-TP-76200 GR-63-CORE Section 4**

Electromagnetic Emission and Immunity

FCC Part 15 and Class A	
VCCI	**Japan**
KCC	**Korea**
Electromagnetic Interference	**ATT-TP-76200 GR1089-CORE Section 3**
ESD - Electrostatic Discharge	**IEC 61000-4-2**
EFT - Electrical Fast Transient	**ATT-TP-76200 GR-1089-CORE Section 2.2**
Lightning and Power Fault	**ATT-TP-76200 GR-1089-CORE Section 4**
DC Power - Telecommunication	**ATT-TP-76200 GR-1089-CORE Section 10**

For more information, please contact your Vector Data account manager.