

DVX Software Spec Sheet

SPEC SHEET

Datrium DVX compute node and data node software powers the Datrium Automatrix platform providing **high performance, resiliency, efficiency, protection, recovery and security for enterprise applications and data in one software defined converged infrastructure.**



The following table enumerates the key features powered by the DVX software.

Enterprise Performance, Scaling & Efficiency	Included
Non-disruptive hyperscalar performance scaling with compute nodes	128 hosts
Non-disruptive hyperscalar capacity scaling with data nodes	10 data nodes
Bring own host & flash (NVMe, SSD) or turn-key Datrium Compute Nodes	✓
Mix cross-vendor rack or blade servers in one DVX system	✓
Local supercache of all data on host for low latency reads (up to 32 TB raw per host)	✓
High performance & throughput with sequentialized writes to SSD or Disks	✓
Always-on inline deduplication on local supercache	✓
Global deduplication of all data on data pool	✓
Always-on inline compression on local supercache and data pool	✓
Enterprise Resiliency	Included
Stateless hosts and workload isolation (no east-west traffic)	✓
Uninterrupted VMs on all SSD failures per host (peer cache mode)	✓
Always-on inline erasure coding (dual parity for double failure protection)	✓
Online field replaceable redundant controllers, power supplies, battery backup on data nodes	✓
End to end network path monitoring & aggregation (DVX Adaptive Pathing)	✓
Online non-disruptive software & firmware upgrades	✓
Management, Analytics & Support	Included
HTML 5 standalone DVX User Interface	✓
VM-based management via Integrated vCenter UI plugin (HTML 5 & Web Client)	✓
Integrated VM-centric analytics & monitoring on DVX User Interface	✓
Datrium Proactive Support (24/7 phone, NBD or 4HR parts) with call-home	✓
Rest APIs and Python SDK	✓
Zero data durability impact upgrades of DVX or hypervisor software	✓

Supported Operating Systems and Hypervisors (in one DVX system)	Included
VMware vSphere	✓
RedHat Enterprise Virtualization (RHEV)	✓
Opensource KVM	✓
RedHat Enterprise Linux Bare-metal (Docker containers/PostGresSQL)	✓
CentOS Bare-metal (Docker containers)	✓
Docker container persistent volume (DVX Docker volume driver)	✓
Kubernetes (virtualized on vSphere)	✓
Openshift (virtualized on vSphere)	✓
Converged Backup & DR	Included
Built-in backup catalog for VM or vDisk snap search (snapstore)	✓
VM, vDisk & Container granular backups via native snapshots with PIT consistency	✓
Policy-based backups using protection groups	✓
Dynamic, wild card based grouping of VMs & files for backups	✓
10 minute snapshot RPO	✓
Instant restarts or clones from native snapshots (zero RTO)	✓
Native Guest File Restores from local or cloud snapshot	✓
Store up to 1 million DVX native snapshots per system	✓
App-consistent snaps for Microsoft SQL & Exchange (DVX VSS agent)	✓
Multi-site (NxM) asynchronous host-based Elastic Replication	✓
Deduplicated, forever incremental replication with time-based throttling	✓
Remote snapshot retrieval from source UI (Cloud or remote DVX)	✓
Datrium Cloud DVX - forever incremental offsite backup in AWS S3	Separate License Needed
Datrium ControlShift - SaaS DR orchestration (DVX -> DVX or DVX -> VMwareCloud on AWS)	Separate License Needed
Security	Included
Support for VMware vSphere lock-down mode (normal and strict)	✓
Software-based Blanket Encryption (FIPS-140-2 validated)	✓
Data encryption in host flash, on the network, and at rest	✓
In-built internal key manager (with support for tenant key rotation)	✓
Dual encryption password capability (password failsafe)	✓
Encrypted DVX lock-down mode for secure transport	✓
Replication over secure connection (SSL/TLS)	✓
Secure host-based multi-tenancy for files & datastore isolation (multiple datastores)	✓