



Data Sheet

# VTrak D5000 Series

32G supported



## Taking storage to the next level

The VTrak D5000 series unified storage systems offer unbeatable scalability, flexibility, efficiency, and simplicity at an affordable price. With high-performance hardware, adaptive storage software, flexible protocols, and seamless connectivity, VTrak D5000 empowers data-driven businesses. 32G ports and Flash drives for faster throughput, reduced latency, with intelligent PROMISE data caching prioritizing critical data in real time. Optimized for SMB/NFS protocols, VTrak D5000 handles large-scale data ingestion, streaming, and processing via 25G/10G Ethernet. It supports direct data transfers over SAN using iSCSI or Fibre Channel networks and features high-availability dual controllers, a hot-swappable modular disk array, and 24/7 technical support.

## Highlights

- Simplify Your Storage Environment**  
Hybrid interfaces allow Concurrent FC & iSCSI connections for SAN as well as NAS protocols
- Eliminate Downtime**  
Fully redundant design for enterprise and Active-Active Dual Controller with ALUA support for access flexibility
- Realize Superior Value**  
Reduce latency and speed operations with up to 50% higher performance
- Proactive & Predictive Analytics**  
Predictive Data Migration (PDM) to minimize maintenance rebuild
- Consolidate Infrastructure**  
Highspeed 10GbE and optional 16/25/32G FC, with 6G SATA<sup>1</sup> and 12G SAS interfaces
- Applications**
  - Video Compressed Workflow
  - General IT Infrastructure
  - Virtualized Applications
  - High Bandwidth Applications
  - Backup and DR target

<sup>1</sup>SATA drives require a SAS-SATA adapter

## Technical Specifications

| Model | VTrak D5300<br>D5300x / D5300Fx / D5300yx | VTrak D5320<br>D5320x / D5320Fx / D5320yx | VTrak D5600<br>D5600x / D5600Fx / D5600yx | VTrak D5800<br>D5800x / D5800Fx / D5800yx |
|-------|-------------------------------------------|-------------------------------------------|-------------------------------------------|-------------------------------------------|
|-------|-------------------------------------------|-------------------------------------------|-------------------------------------------|-------------------------------------------|

### General Information

|                         |                                                                                                                                                                                                                                                                                                 |                   |                   |                   |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------------|-------------------|
| Form Factor             | 2U, 19" Rackmount                                                                                                                                                                                                                                                                               | 2U, 19" Rackmount | 3U, 19" Rackmount | 4U, 19" Rackmount |
| Drives                  | 12 (LFF)                                                                                                                                                                                                                                                                                        | 24 (SFF)          | 16 (LFF)          | 24 (LFF)          |
| Host Connectivity       | <b>D5000xS:</b> 2-ports 10G SFP+ / <b>D5000xD:</b> 4-ports 10G SFP+<br><b>D5000FxS:</b> 2-port 10G SFP+ and 4-port 32G FC / <b>D5000FxD:</b> 4-port 10G SFP+ and 8-port 32G FC<br><b>D5000yxS:</b> 2-port 10G SFP+ and 2-port 25G SFP28 / <b>D5000yxD:</b> 4-port 10G SFP+ and 4-port 25G SFP28 |                   |                   |                   |
| Storage Expansion Ports | 2 x 2 12Gb SAS Mini-SAS (SFF-8644) per controller                                                                                                                                                                                                                                               |                   |                   |                   |
| Management Ports        | 2 x RJ-45 1Gb Ethernet and 1 x RJ-11 Serial Port per controller                                                                                                                                                                                                                                 |                   |                   |                   |
| Capacity/Expansion      | Online Capacity/Volume Expansion up-to 15 JBOD's ; up to 512 drives                                                                                                                                                                                                                             |                   |                   |                   |

### Data Services and Feature

|                              |                                                                                                                                                                                      |
|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Cache memory                 | Default 32GB per controller (Max 128GB per controller)                                                                                                                               |
| Max Pools/Volumes            | 256 volumes per pool, Max 32 pools per System; Max 512 Snapshots / 128 Clones per volume                                                                                             |
| Data Services(Advanced Pool) | • Thin Provision • Snapshot • Thin Clone • Thick Clone<br>• Compression • SSD Cache (*additional data service license needs to be included)                                          |
| Advanced Storage Features    | • Asymmetric LUN Unit Access (ALUA) • LDAP for central user management • Linux Permission, POSIX ACL,NT ACL<br>• Advanced Cache Mirroring over PCIe Gen3 • Microsoft AD, LDAP and OD |

### NAS Feature

|                              |                                                           |
|------------------------------|-----------------------------------------------------------|
| Supported Network Protocols  | SMB/CIFS (Windows, MAC), NFS (Linux/Unix), FTP, WebDAV    |
| Max. NAS Share               | 1024 per pool                                             |
| NAS Share Size               | 1PB                                                       |
| Concurrent Sessions / Memory | 256 for each protocol /32GB, 128 for each protocol /16GB  |
| Max. Account                 | 10K                                                       |
| Supported Domain             | Microsoft Active Directory, LDAP, Apple Open Directory    |
| Max. Domain Account          | 100K                                                      |
| Data Management              | Permission Management, Quota Management, Online Expansion |

### High Availability

|                               |                                                                                                                                                                           |
|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| RAID Levels/Stripe            | 0, 1, 5, 6, 10, 50, 60 RAID Stripe Support 64K, 128K, 256K, 512K and 1MB                                                                                                  |
| Hot Spares                    | Global or Dedicated                                                                                                                                                       |
| Background Scrub              | • Media Patrol & Redundancy Check • Background Synchronization • Partial Rebuild • Task Scheduler for Background Activities                                               |
| Proactive/Predictive Features | • Predictive Data Migration (PDM) • Intelligent Bad Sector Remapping • NVRAM Error Logging<br>• Drive Power Management (MAID) • SMART Error Handling and Write Hole Table |

### Ecosystem Integration

|               |                                                                                                                                                                                                                                     |
|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Supported OSs | Windows Server 2012 R2, 2016, 2019, 2022, macOS Sierra 10.12.6, Ventura 13.1, RHEL 6.6, 6.7, 6.8, 7.0, 7.2, 7.4, SLES 11 SP4, 12 SP1, VMWare ESXi 6.0, 6.5, 6.7, 7.0, 8.0, Citrix Hypervisor 7.0 LTSR, 7.1 LTSR, 8.0, 8.1, 8.2 LTSR |
|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### Management Interface

|                    |                                                        |
|--------------------|--------------------------------------------------------|
| Tools and Protocol | CLI, WebPAM ProE: Web Based management tool, SSH, SNMP |
|--------------------|--------------------------------------------------------|

### System Information

|                        |                                                                                                                                                           |                                      |                                     |                                     |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|-------------------------------------|-------------------------------------|
| Power Supply           | Dual 595W Redundant Power Supply                                                                                                                          |                                      | Dual 800W Redundant Power Supply    |                                     |
| Power Efficiency       | >80% @ 110V (>20% load), >80% @ 240V (>20% load) Temperature Range, 80Plus Certified PSU                                                                  |                                      |                                     |                                     |
| Temperature Range      | Operational: 5° to 35°C, Non-Operational: -40° to 60°C                                                                                                    |                                      |                                     |                                     |
| Humidity               | Operational: 20% to 80%, Non--Operational: ~ 95% (Non-Condensing)                                                                                         |                                      |                                     |                                     |
| Noise Levels & Shock   | < 60dB, 25C, Operational: 5G, 11 ms Duration, Non-Operational: 30G, 11ms duration                                                                         |                                      |                                     |                                     |
| Vibration              | Operational: 0.2G, 5 to 500Hz (sine wave) ; 0.41G, 3-10-200-500Hz (Random) ,Non-Operational: 1G, 5 to 500Hz (sine wave) ; 2.256G, 5-80-350-500Hz (Random) |                                      |                                     |                                     |
| Dimensions (H x W x D) | 88 x 447 x 507mm                                                                                                                                          | 88 x 447 x 427 mm                    | 131 x 446.7 x 507 mm                | 174 x 446.7 x 507 mm                |
| Weight                 | 18.4Kg w/o drives, 26.8Kg w/ drives                                                                                                                       | 16.7Kg w/o drives, 21.2Kg w/ drivess | 22.0Kg w/o drives, 33.2Kg w/ drives | 26.8Kg w/o drives, 43.8Kg w/ drives |

### Warranty and Support

|          |                                                                                                                               |
|----------|-------------------------------------------------------------------------------------------------------------------------------|
| Warranty | 3-years standard warranty, optional extended warranty, and on-site parts replacement program (PROMISE ServicePlus) available. |
| Support  | 24/7 PROMISE eSupport Portal (support.promise.com), optional 24/7 phone and email support available.                          |

Contact us



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