VTrak D5000 Series

Unified Storage System

Key Highlights

Simplify Your Storage Environment

- Consolidate SAN and/or NAS workload on the same storage solution

- Concurrent FC & ISCSI connections for SAN as well as NAS protocols

Realize Superior Value

- Accelerate enterprise applications

- Reduce latency and speed operations with up to 50% higher performance

Consolidate Infrastructure

- Massively scale up to 512 drives

- Flexible 10GbE and optional 8/16G FC, with 6G SAS/SATA[1] and 12G SAS interfaces.

Eliminate Downtime

- Fully redundant design for enterprise

- Active-Active Dual Controller with ALUA support for access flexibility

- Upgrade & expand without downtime

Proactive & Predictive Analytics

- Background data integrity scrub with parity rebuild

- Predictive Data Migration (PDM) to minimize maintenance

Applications

- General IT Infrastructure

- Virtualized Applications

- High Bandwidth Applications

- Backup and DR target

VTrak D5000 Unified Storage System

VTrak D5000 series unified storage systems deliver uncompromising scalability, flexibility, and affordability for the mid-tier while providing simplicity and efficiency for minimizing total cost of ownership. Customers can respond more quickly to changing IT needs with VTrak D5000 series unified storage at an affordable price.

Accelerate Business with VTrak D5000

VTrak D5000 enables data driven business with an integrated combination of high-performance hardware, adaptive storage software, flexible protocols and application dependent front and backend connectivity at an affordable price.

Unlock Power of Flash Cache at Affordable Price

Flash Cache accelerated VTrak D5000 storage systems deliver impressive performance, boosting throughput and lowering latency. User has option to add Flash Cache for read and write acceleration. PROMISE intelligent data caching automatically promotes hot data to cache in real time, so you get the full benefit of flash performance.

Enterprise Class Storage with Simplified Management

VTrak D5000 is optimized for high bandwidth and low latency which makes it perfect storage solution platform for mid-tier IT applications, surveillance, backup, and running multiple mixed workloads.

All Inclusive Pricing   North America Only

VTrak D5000 all-inclusive pricing includes hardware, software, and three years of Next Business Day service on the array. This makes storage affordable with simplified predictable cost.

Flexibility on Form Factor

VTrak D5000 series comes in four models D5300/20 (2RU), D5600 (3RU), and D5800 (4RU) giving users the flexibility on form factor.

VTrak D5000 Specifications

Models and Controller Feature				
Models	D5300x / D5300fx	D5320x / D5320fx	D5600x / D5600fx	D5800x / D5800fx
Form Factor	2RU	2RU	3RU	4RU
Drives	12 (LFF)	24 (SFF)	16 (LFF)	24 (LFF) + 4 (SFF)
Host Connectivity	D5000xD: iSCSI and NAS Storage Sub-System, Dual HA Controller w/ 4-port 10GSFP+ D5000xS: iSCSI and NAS Sub-System, Single Controller w/ 2-port 10GSFP+ D5000fxD: FC, iSCSI and NAS Unified Storage Sub-System, Dual HA Controller w/ 4-port 10GSFP+ and 8-port 16Gb FC D5000fxS: FC, iSCSI and NAS Unified Storage Sub-System, Single Controller w/ 2-port 10GSFP+ and 4-port 16Gb FC			
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			

Data Services and Feature		
Max Pools/Volumes	256 volumes per pool, Max 32 pools per System; Max 512 Snapshots / 128 Clones per volume	
Data Services	• Snapshot • Thin/Thick Clones [2]	• Thick/Thin Volumes • Read/Write Cache • Online Capacity Expansion
Advanced Storage Features	• Asymmetric LUN Unit Access (ALUA) • LDAP for central user management • Linux Permission, POSIX ACL,NT ACL	• Advanced Cache Mirroring over PCIe Gen3 • Microsoft AD, LDAP and OD

NAS Feature	
Protocol	SAN - FC Block with 16Gb FC or 10GbE iSCSI NAS - SMB/CIFS v2/v3, NFS v3/v4

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	• Drive Power Management (MAID) • SMART Error Handling and Write Hole Table

Ecosystem Integration	
Supported OSs	Windows Server 2008, 2012, 2016, macOS 10.x, RHEL 6.5 to 7.2, SLES 11, 11 SP4, and 12 SP1
Certifications	VMware ESXi 6.5 & Citrix Server 7.3

Management Interface	
Protocol	Web Based management using WEB, CLI, SSH, SNMP

Physical/Environmental		
Power	Voltage: 100--240Vac Auto--Ranging Max Current: 9A @ 100Vac; 4.5A @ 240Vac	Voltage: 100--240Vac Auto--Ranging Max Current: 12A @ 100Vac; 4.5A @ 240Vac
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)	
Regulatory/Safety	EMC Class-A: CE, FCC, VCCI, BSMI, RCM / Safety: IEEE CB, cTUVus / Environmental: RoHS2, GreenPC, WEEE	

Warranty and Support	
Warranty	3-year full system limited warranty including PROMISE PSP, optional extended warranty
Support	24/7 e-mail and phone support, 24/7 access to PROMISE site-drives and firmware upgrade

[1] SATA drives require a SAS-SATA adapter, [2] Thick Clones supported in SR1.1 or newer

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