





VTrak D5000 Series

Unified Storage System

Key Highlights

Simplify Your Storage Environment

- Consolidate SAN and/or NAS workload on the same storage solution
- Hybrid interfaces allow 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
- As low as \$60 per terabyte

Consolidate Infrastructure

- Massively scale up to 512 drives
- Flexible 10GbE and optional 8/16G FC, with 6G SAS/SATA¹ and 12G SAS interfaces
- Integrate into existing Open Directory and Active Directory environments

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
- Predictive Data Migration (PDM) to minimize maintenance

Applications

- Video Compressed Workflow
- · 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 storage capacity and performance requirement needs.

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.

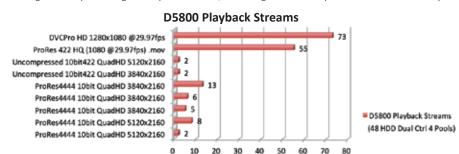
Not just for IT, Optimized for video application environments

The Promise VTrak D5000 is optimized for 10Gb Ethernet via SMB/NFS protocols for large file data ingesting, streaming, or processing between the VTrak D5000 NAS storage appliance and its clients. Data can also be directly transferred between the VTrak D5000 appliance and clients over the SAN via iSCSI/Fibre Channel network. This means higher bandwidth performance and lower latency data transfers, perfect for Media & Entertainment, HPC applications, and other video-centric environments. In addition the VTrak D5000 supports Open Directory and Active Directory making it fully integrateable into your existing networking environment.

Edit & play back compressed video faster

A faster processor, 10Gb Ethernet ports, and more memory is just the beginning. Enhanced cached mirroring design, auto-regeneration of data to mitigate frame drops and optimized disk access all add up to blazing performance for broadcast and editing environments.

The VTrak D5000 Series optimizes performance to enable media professionals to increase productivity by allowing efficient processing of compressed video, delivering best-in-class performance and reliability.



Scalable, reliable and cost-efficient

With VTrak D5000 you can "pay as you grow" from 64 Tera Bytes to Peta Bytes for long-term storage investment protection. Perfect not only for compressed video workflow environments but ideal for low cost backup/archive applications. Additionally, VTrak D5000 series comes with high-availability dual controllers, hot-swappable modular disk array, and a 3 year 24x7 technical support, with next business day on-site parts replacement warranty. Expansion units can start from 2u24 small form factor to large form factor 2u12, 3u16, 4U24 and up to the high density 4u60 and 5u102 JBOD expansion options. The VTrak D5000 is the most affordable Enterprise storage solution starting as low as \$60 per terabytes plus additional savings from less cooling, less rack space and energy costs.





VTrak D5000 Specifications

Models and Controller Feat	ure			
Models				
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	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 v	olume
	e Chanchot		Thick/Thin Volumes	
Data Services	 Snapshot Thin/Thick Clones ² 		Read/Write CacheOnline Capacity Expansion	
	·			
Advanced Storage Features	Asymmetric LUN Unit Access (ALUA) LDAP for central user management		Advanced Cache Mirroring over PCle Gen3 Missessft AD LDAR and OD	
	Linux Permission, POSIX ACL,NT ACL 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 F 6 10 F0 60 DAID C+	ring Cupport CAV 130V 3FCV	F12V and 1MD	
Hot Spares	0, 1, 5, 6, 10, 50, 60 RAID Stripe Support 64K, 128K, 256K, 512K and 1MB Global or Dedicated			
·	Media Patrol & Redundancy Check Partial Rebuild			
Background Scrub	Background Synchronization		Task Scheduler for Background Activities	
	Predictive Data Migration (PDM) Intelligent Pad Scotes Personning Drive Power Management (MAID)			
Proactive/Predictive Features				Write Hole Table
Foogration Integration	• NVKAIVI EITOI LOGGIIIG			
Ecosystem Integration	W. I C 2000 2012	2046 0640 BUELGE	. 7.0 (150.44.44.604	2.004
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 us	ing Web, CLI, SSH, SNMP		
Physical/Environmental				
Power	Voltage: 100240Vac Auto		Voltage: 100240Vac Auto	
	Max Current: 9A @ 100Vac		Max Current: 12A @ 100Va	
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%, NonOperational: ~ 95% (Non-Condensing)			
Noise Levels & Shock	< 60dB, 25C, Operational: 5G, 11 ms Duration, Non-Operational: 30G, 11ms duration			
	Operational: 0.2G, 5 to 500Hz (sine wave); 0.41G, 3-10-200-500Hz (Random), Non-Operational:			
Vibration		2.256G, 5-80-350-500Hz (Rar		. Tationan
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 wa	arranty including PROMISE PS	P, optional extended warranty	
Support			site-drives and firmware upgra	
	ear 2 Thick Clanes supported in SP1 1		and and an	

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

