

PROMISE VTrak Ex30f

8Gbps Fibre Channel to 6Gb SAS/SATA High Availability Storage



VTrak Ex30 Advantages

- Quad 8Gbps FC ports per controller
- Delivers up to four times more performance than previous generation
- High-availability design
- Out-of-the-box support with zero software install required
- Scale up to 9 expansion chassis for a total of 240 drives
- PerfectFlash enables software updates without requiring downtime
- Administer access control through Open Directory & LDAP
- Energy efficient power supplies offering up to 85% power efficiency
- Qualified solution for Mac OS X, Xsan, and Final Cut Pro
- Certified for Windows, Linux, and StorNext

Tomorrow's Performance. Today.

The PROMISE VTrak x30 Series RAID subsystem is a high performance, massively scalable 8G Fibre Channel storage subsystem designed to provide 24/7, 365 enterprise-class availability. Optimized to work within a Mac OS X environment, the VTrak x30 Series offers up to four times more performance than the previous generation delivering up to 5.5 GB/s for reads and 2.4 GB/s for writes.

The VTrak x30 Series RAID solution was developed to meet the mission critical needs of today's demanding video workflows. At the heart of the PROMISE VTrak x30 Series RAID subsystem is an advanced, high-performance RAID engine developed over the course of two decades. Powered by next-generation processing power from Intel, the Xeon C3500 Series processors, the VTrak x30 unleashes tomorrow's performance, today.

Edit & Playback Video Faster than Ever Before

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

Redesigned WebPAM PROe Management Suite

Designed with simplicity in mind, the all-new WebPAM PROe takes VTrak storage management to a new level. Included are automatic configurations tuned for common applications, non-disruptive software updates, power savings scheduler, performance and power monitoring statistics, drag-and-drop LUN mapping/masking and more. Every thing you need is built in, just login through Safari.

Heterogeneous Environments. Always.

PROMISE has a long history of supporting multiple platforms. The VTrak x30 Series supports Mac OS, Windows and Linux. Extensively tested and qualified across diverse OS and SAN environments such as Xsan and StorNext, the VTrak x30 is built for your enterprise workload.

PROMISE[®]
TECHNOLOGY, INC.





Operational Features

3U/16 Bay

4U/24 Bay

Model #* - Single Controller	VTE630FS	VTE830FS
Model #* - Dual Controller	VTE630FD	VTE830FD
Drive Support	Up to sixteen 3.5"/2.5" HDDs or SSDs <ul style="list-style-type: none"> • SAS 7200 rpm: 6 Gbps, 3Gbps • SATA: 6Gbps, 3Gbps and 1.5Gbps • Supports any mix of SAS and SATA drives simultaneously in the same enclosure 	Up to twenty-four 3.5"/2.5" HDDs or SSDs
External I/O Ports (per controller)	<ul style="list-style-type: none"> • Four 8Gbps Fibre Channel ports, backwards compatible with 4Gbps and 2 Gbps Fibre Channel • One external SAS port using industry standard Mini SAS 4x wide-port-SAS connectors (SFF-8088) to connect up to 9 cascading expansion JBODs 	
Data Cache	2GB data cache per controller protected with hot-swappable battery backup unit (BBU)	

Operational Features

RAID Levels	0, 1, 1E, 5, 6, 10, 50, 60	
RAID Stripe Size Support	64K, 128K, 256K, 512K and 1MB	
Hot Spares	Global or dedicated with revertible option	
Max LUNs per Subsystem	1024	
Max LUNs per array	32	
Advanced Storage Features	<ul style="list-style-type: none"> • Secure 128-bit SSL web based management using WebPAM PROe (Ethernet) • Command Line Interface (CLI) or Command Line Utility (Serial Port or Ethernet via Telnet, SSH) • Advanced Cache Mirroring over PCIe Gen2 • Advanced drag-and-drop LUN Masking and Mapping • Asymmetric LUN Unit Access (ALUA) • Offline volume copy • Bonjour discovery 	<ul style="list-style-type: none"> • PerfectFlash - Non-Disruptive Software Update • I/O performance & power monitoring tools • USB Service Log • LDAP Support for central user management • SNMP, CIM for third-party monitoring software • Statistical charts for bandwidth, latency and IOPs for each port, logical drive and physical • Power and cache usage monitor • Email monitoring support with customizable event notification list • Intelligent UPS monitoring
Background Activities	<ul style="list-style-type: none"> • Media Patrol • Background Synchronization • Foreground Initialization • Rebuild • Redundancy Check 	<ul style="list-style-type: none"> • Disk SMART Polling • Online Capacity Expansion (OCE) • RAID Level Migration (RLM) • Intelligent UPS Monitoring • Feature rich task scheduler for background activities
PerfectRAID Features	<ul style="list-style-type: none"> • Predictive Data Migration (PDM) • Intelligent Bad Sector Remapping • SMART Error Handling • NVRAM Error Logging 	<ul style="list-style-type: none"> • Disk Slot Power Control • Read/Write Check Table • Write Hole Table Protection
GreenRAID Features	<ul style="list-style-type: none"> • Four levels of advanced power management disk drive (MAID) support • Efficient 80Plus Certified power supplies 	
Supported Operating Systems	Mac OS X/Mac OS X Server (10.8), Microsoft Windows Server 2008 w/SP2, Microsoft Windows Server 2008 R2, RedHat Enterprise Linux 6.0, RedHat Enterprise Linux 6.1, SuSE Linux Enterprise Server 11.1, VMware ESX Server 4.1, VMware ESX Server 5.0	

Mechanical Specification

Voltage	100-240 Vac Auto-Ranging
Current [Maximum]	10 A @ 100 VAC; 5 A @ 200 VAC
Power Conversion Efficiency	>80% @ 110V [>20% load], >80% @ 240V [>20% load]
Temperature Range	Operational: 5° to 35°C, Non-Operational: -40° to 60°C
Humidity	Operational: 10% to 90% [Non-Condensing], Non-Operational: 5% to 95% [Non-Condensing]
Acoustic Noise Levels	55 dB [Typical], 65 dB [Maximum]
Shock	Operational: 5G, 11 ms duration, Non-Operational: 10G, 11ms duration
Vibration	Operational: 0.3G, 5 to 500 Hz, Non-Operational: 1G, 5 to 500 Hz
Safety	CE, FCC Class A, UL/cUL, TUV, BSMI Class A, VCCI Class A, CB, KCC, NOM, GOST-R, IRAM, C-Tick, S-Mark
Environmental Standards	RoHS, GreenPC, WEEE

	3U/16 Bay	4U/24 Bay
Power Supply	Dual 580W, 100-240 Vac auto-ranging, 50-60 Hz, dual hot swap and redundant with PFC, N+1 design	Dual 750W, 100-240 Vac auto-ranging, 50-60 Hz, dual hot swap and redundant with PFC, N+1 design
Dimensions (H x W x D)	13.1 x 44.7 x 50.7 cm, 5.2 x 17.6 x 19.96 in	17.4 x 44.7 x 50.7 cm, 6.9 x 17.6 x 19.96 in
Weight	25 kg / 56 lbs (w/o drives)	27 kg / 60 lbs (w/o drives)

Warranty and Support

Warranty	Three year complete system limited warranty with advanced parts replacement; optional extended warranty; onsite parts replacement program - PROMISE Service Plus (optional in some regions)
Support	24/7 e-mail and phone support (English only); 24/7 access to Promise support site-drivers, firmware and compatibility lists

*Note: Model numbers are for North America only, please check with your local sales rep for the correct model number in your region