



## Pantera Storage Subsystem – Model V100

*Storage intensive applications are driving explosion in digital content which in turn is placing significant demands on the existing IT storage infrastructures to cost effectively cope with such overload. Storage managers seeking to successfully manage these environments require dense, power efficient storage solutions that deliver ultra low-cost without compromising the performance of storage across the enterprise.*

### Redefining Flexibility and Availability

The Pantera storage subsystem – model V100, integral to and available as part of the ONStor Pantera clustered NAS Filers, has been engineered to be industry's most complete and cost effective high capacity storage system. The model V100 is high density, energy efficient storage solution delivering 42 drives and dual RAID controllers in only 4U of rack space. The model V100 delivers high end performance at exceptional price point and delivers superior data protection while its unmatched capacity easily handles enormous volumes of files and thus ensuring unprecedented amounts of data to be cost-effectively stored and instantly accessed.

The model V100's advanced mechanical design provides superior cooling for optimal thermal operation, reduces drive vibration and delivers outstanding energy efficiency in an extreme density (42 drives in 4U high) form factor. The model V100's unique design extends individual drive life and provides TCO savings year over year while delivering unsurpassed performance and reliability for a broad range of storage requirements. With an extreme density design that provides a compact footprint and scales to hundreds of terabytes of capacity in a single rack, the model V100 easily meets the demands of the most capacity hungry storage environments.

The model V100's dual controllers use the award winning Performance SATA™ design to provide blistering throughput performance with 42 spindles that can be segmented into multiple RAID sets or a single large storage pool. All the individual components are fully redundant and hot swappable while the full cache coherency design to ensure data integrity even with power loss.

### Simplifying Storage Configuration and Management

The model V100's management interface is built into the controller, alleviating the need to have a separate server or application manage the storage array. This sophisticated management utility monitors and reports the status of all subsystems over a 10/100/1000-network port. LUN Mapping allows users to easily configure and manage the massive disk capacity.

For customers looking to deploy energy efficient, deep dense storage for their nearline and archive data, model V100 storage subsystem with its 4U-42 form factor and low power consumption offers the best in class value and cost of ownership of any enterprise storage subsystem.

### FEATURES/HIGHLIGHTS

- Up to 42 latest high-capacity SATA disk drives in 4U form factor
- Highest density per rack inch – 10.5 drives per 1 rack unit
- RAID 0, 1, 1+0, 4, 5, and 6
- Single or dual active/active RAID controllers and 256 LUNs per controller
- Every component is redundant with individual components online hot swappable
- Highest performance – over 800 MB/s sustained throughput
- Delivers access to data up to 500 times faster than tape libraries
- High IOPS performance – all 42 drives can be active simultaneously
- Anti-Accumulative Rotational Vibration design enables maximum drive reliability

**TECHNICAL SPECIFICATIONS**

<b>General Information</b>	External Interface	Dual port, 2Gb Fibre Channel (2 host ports per controller)
	Supported Operating Platforms	ONStor EverON OS
	Supported Hosts	256, 512 LUNs, LUN Masking, >2TB LUNs
	Total Capacity per Unit	42TB (using 1TB drives)
	Expansion Chassis	None
<b>Disk Drives</b>	Disk Drives Supported	SATA (500GB, 750GB, 1TB @ 7.2K RPM)
	Max Drives per Enclosure	42 drives
<b>RAID Controllers</b>	No. RAID Controllers	Single or Dual active/active controllers
	RAID Levels Supported	Supports RAID 0, 1, 1+0, 4, 5 and 6, Multiple RAID sets and multiple volumes per set
	Cache	2GB cache per controller
<b>System Management</b>	Software	Embedded web-browsable GUI supports email alerts, SNMP traps
	Interfaces Supported	Ethernet 10/100/1000 Base-T Ethernet RJ45 (2 per controller)
<b>System Availability</b>	Hot Swappable Components	Hot pluggable drives, controllers, and power supplies
	Additional Reliability Features	Host based dynamic multi-path failover
<b>Dimensions</b>	Height	807mm
	Width	430mm
	Depth	177.00mm
	Weight	72.5 lbs (without disk drives)
<b>Altitude, Power and Temperatures</b>	Voltage	Switchable 110/240 Auto switching / Auto ranging
	Frequency	Frequency 50-440Hz
	Power Consumption	Nominal: 350W, 4.5A @ 115VAC, 2.5A @ 230 VAC, 1200 BTU/hour Peak: 750W, 6.5 A @ 115VAC, 3.5 A @ 230 VAC, 2500 BTU/hour
	Temperature Range	-0°C to 40°C – (32°F to 104°F)
<b>Approvals</b>	UL 60950, CSA-C22.2 No.60950 EN 55022 Class A, EN 55024, FCC part 15 73/23/EEC Low Voltage Directive, 89/336/EEC EMC, RoHS 2002/95/EC, WEEE 2002/96/EC	
<b>Warranty Information</b>	Enclosures with drives	3 years