ONStor Pantera LS 2100 Series
Unified IP Storage Solution

Explosive data growth is the norm in enterprise storage environments regardless of company size. Such relentless data expansion has generated complex data management requirements. ONStor Pantera LS 2100 Series is a breakthrough storage platform that meets these challenges head-on and delivers enterprise features at entry level prices. ONStor Pantera LS 2100 delivers outstanding value through excellent performance, seamless scalability, and best-in-class TCO when compared to other storage systems.

Highlights

- Based on open, highly reliable 128-bit Zettabyte File System (ZFS)
- Open storage software technology eliminates vendor lock-in
- Multi-protocol – CIFS, NFSv3/v4, iSCSI, HTTP, FTP
- Seamless data protection with RAIDZ (5 & 6), Mirroring, Striping
- Flexible disaster recovery solution with IP and FC based bi-directional replication (1:N, N:1)
- Simplified data management with unlimited, instantaneous Snapshots
- Native Data Compression
- Thin Provisioning
- E-mail-based automated support
- All software included in base system

Data Storage Simplified

The Pantera LS 2100 series is a family of unified IP storage (NAS & iSCSI) systems that offers innovative data management, superior performance, and intuitive management interface for easy deployment and administration. Using open software, system and storage technology, these systems deliver dramatic costs savings and free you from the bane of proprietary systems and vendor lock-in.

Unified IP Storage

Pantera LS 2100 systems feature a common end-to-end architecture that makes it easy to expand capacity and performance quickly and easily. All enterprise features are bundled in to the systems enabling you to bring enterprise-level storage to your departments and remote offices. With these systems you get integrated block- and file-level data access (NFS, CIFS, iSCSI), advanced data protection, versatile I/O connectivity and choice of SAS or SATA storage. Pantera LS2100 is possibly the best investment you will ever make for your data.

Superior Storage Utilization

Pantera LS 2100 features the Zettabyte File System (ZFS), the most advanced enterprise file system in the market today. ZFS offers a number of capabilities that help deliver superior storage utilization. Built-in thin provisioning, integrated compression and instantaneous snapshot bolster storage efficiency through higher capacity utilization and smaller data footprints. Advanced hybrid storage pool design allows for automated tiering by integrating different types of storage (SAS, SATA and Flash SSD) into a single storage pool.

High Data Availability

Features such as RAID-Z, Mirroring, synchronous and asynchronous Replication ensures that your data is always available. Virtually infinite and instantaneous snapshots ensure that you have your data always backed up online. Built-in checksums of data and metadata ensures that don't have to worry about disasters such as data corruption that are often seen with other storage systems.

Scaling Storage to meet your growing demands

Unlike traditional storage systems, Pantera LS 2100 systems support scalability in multiple dimensions. You can scale system performance and capacity independently to meet your varying application data needs. IT administrators can choose to increase computational power, increase storage I/O performance, and increase capacity by adding enterprise class SAS or SATA disk storage to their existing storage systems.

TECHNICAL SPECIFICATIONS

Pantera LS Models		LS 2130	LS 2150
Hardware	Processor	Quad-Core Intel Xeon	Two Quad-Core Intel Xeon
	Memory	8 GB	16GB
	Integrated Networking	2 Gigabit Ethernet	4 Gigabit Ethernet
	Optional Network Connectivity	10Gigabit Ethernet	10Gigabit Ethernet
Storage	Max Disk Drives	48	96
	Disk Capacity Options	High Performance SAS 15K RPM - 300GB, 450GB / High Capacity 7.2K RPM - 750GB, 1TB / Flash SSD – 32GB	
	Storage Shelves	3U Form Factor with 15 bays for 3.5” disk drives	
Software	File System	Zettabyte File System (128-bit capacity)	
	File Protocols	NFSv2, NFSv3, NFSv4, CIFS, FTP, HTTP	
	Block Protocols	iSCSI	
	Storage Pool	Hybrid, Shared Pool supporting multiple grades of storage	
	RAID	Striping, Mirroring, Single Parity RAIDZ (5) and Dual Parity RAIDZ2 (6)	
	Data Compression	Integrated, choice of GZIP or LZ Compression	
	Data Integrity	Metadata and User data checksums	
	Snapshots	Instantaneous, High-performance, Virtually Unlimited	
	Snapshot Rollback	Instantaneous	
	Thin Provisioning	Integrated	
	Storage Quota	File System, Directory	
	Replication	Asynchronous, block-based differential - 1:N, N:1	
	System Management	Integrated, Web-based	
Network Services	Directory Services	Active Directory, NIS, LDAP	
	Network Services	NTP, DHCP, SMTP	
	Remote Monitoring	SNMP v2	
	Automated Serviceability	Email-based automated support	
Power	AC Power / Max Current	Auto switching universal 110/220 Volts; 47-63 Hz;	
	Power Supply	Standard Redundant 750 Watt hot-plug power	
	Cooling Fans	N+1 redundant fans	
Dimensions	Form Factor	2 Rack Units	
	Dimensions (D x W x H), Weight	29.31" (74.4cm) D x 17.5" (44.43cm) W x 3.4" (8.64cm) H with bezel attached Rack Weight 50.71 lbs (23 Kg), maximum configuration	
Regulatory Approvals	Safety	UL 60950-1; CSA 60950-1; EN 60950-1	
	Emissions	FCC Part 15 Class A; CE Class A; VCCI Class A; ACMA Class A; ICES Class A	
Environment	Temperature	Operating 10° to 35°C (50° to 95°F) with a maximum temperature gradation of 10°C per hour	
	Humidity	Operating 20% to 80% (non-condensing) with a maximum humidity gradation of 10% per hour	
	Altitude	Operating –16 to 3048 m (–50 to 10,000 ft)	
	Maximum Shock	Operating - One shock pulse in the positive z axis of 41G for up to 2ms in the operational orientation	
	Maximum Vibration	Operating 0.26 Grms at 5–350 Hz in operational orientations	

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