Celeros

eXtremeSAN Platforms

Celeros Corp. 2688 Middlefield Rd. Suite A Redwood City, Ca 94063

eXtremeSAN Benefits:

Dependable storage for your organization's vital data

Quick and easy deployment

Low power consumption

Scalability and reliability

Optimized storage use and lower total cost of ownership (TCO)

Platforms ideal for:

Database Storage (Oracle db, IBM db2, MS SQL..)

Email System storage (MS Exchange, Sendmail…)

Virtualization & Clustering (VMware, Polyserve, Windows, Netware,…)

File and Print services storage

Disk-to-disk backup storage

Compliance driven archives

Email and document archives

Departmental or Remote office storage

eXtremeSAN Platform

eXtremeSAN takes the iSCSI revolution to the next level by utilizing a powerful, highly integrated System On A Chip (SOC) design. With eXtremeSAN, customers with applications that demand high throughput can now enjoy the benefits of low cost, high capacity networked storage that iSCSI brings to play. Tasks that in other platforms take multiple processors, multiple Offload Engine cards, and hardware RAID components are now accomplished with a single chip, dramatically lowering the power consumption and enabling lower cost. Designed for native 10G support, these platforms are capable of up to 1100 MB/s of throughput per chassis.

Platform Features Highlights

- ASIC based iSCSI and RAID engine
- Low power consumption
- Quad or Octal Gigabit Ethernet or 10G network interfaces
- Scalable high performance
- Easy to use storage management (SMI based interface)

Rock Solid Reliability

- Scalable performance: The System on A Chip design incorporates iSCSI offload Engine, H/W RAID functionality and multiple embedded CPU to enable the platforms to saturate all the available iSCSI interfaces and scale linearly in performance as demand on the storage subsystem increases.
- Network Path: All Gigabit interfaces can be teamed, using 802.3AD standard to ensure failover and high throughput, providing high availability and high bandwidth multi-gigabit connections to the storage server. IEEE 802.1Q VLAN tagging provides segregation of traffic into isolated zones for access security.
- RAID Support: Hardware RAID levels 0, 1, 5, 10, can be configured for fault tolerant disk arrays. Each drive can participate in multiple divergent raid sets ensuring maximum utilization of available storage space. ‘Micro Rebuild’ avoids lengthy rebuild of RAID sets for localized disk failures. With ‘Media Scan’ feature, storage space in the appliance can be scanned for media reliability issues and disk sectors with potential for failure are marked and set aside.
- Battery Backup: Cache and its metadata will persist through sudden, unexpected power loss via an on-board battery that is designed to backup 4 GB of cache memory for a minimum of 72 hours. This allows for extensive reliable write coalescing.

eXtremeSAN Platforms:

Supports 250G, 400G, 500G and 750G hot swappable SATAII drives

Higher Performance with Hardware RAID

Support for RAID levels 0, 1, 5 and 10

Higher throughput and better Redundancy with 4x, 8x Gigabit Ethernet or 10Gb

Redundant Power Supplies

Redundant Cooling

Supported Configurations:

Microsoft iSCSI Initiator

Linux, Solaris, HP/UX, IBM AIX, Mac OS Initiators

QLogic QLA4010C iSCSI Adapter

Adaptec 7211C 1 Gb iSCSI Initiator

Intel PRO/1000T IP Storage Adapter

Alacritech iSCSI Accelerator

Platform Summary:

Model	Rack size	Network Interfaces	Raw capacity w/ 750GB	
XT408	*2U*	*4 x 1Gb*	*8 drives 6TB*	
XT416	*3U*	*4 x 1Gb*	*16 drives 12TB*	
XT816	*3U*	*8 x 1Gb*	*16 drives 12TB*	
XT1016	*3U*	*10 x 1Gb*	*16 drives 12TB*	

"Celeros' motto of bringing sanity to storage costs does ring true"

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eXtremeSAN Datasheet

Model	XT408
Drives	8
Capacity	6 TB (8x750 GB)
System Memory	512M, 1GB Max
Cache	1GB STD, 4GB Max
Network	4x Gigabit Ethernet
RAID	0, 1, 5, 10, JBOD
Hardware	2U
Power Supply	Redundant hot swappable 500W power supply
Redundant Cooling System	4 System Fans (80mm x 80mm) 2 Rear Exhaust Fans (40mm x 40mm)
Temperature	0ºC(32F)~ 50ºC(122F)
Humidity	5% - 95% noncondensing
Chassis Material	Heavy Duty cold-rolled steel

Model	XT416, 816, 1016
Drives	16
Capacity	12 TB (16x750 GB)
System Memory	512M, 1 GB Max
Cache	2GB STD, 4GB Max
Network	4x or 8x Gigabit Ethernet or 1x 10Gb Ethernet
RAID	0, 1, 5, 10, JBOD
Hardware	3U
Power Supply	Redundant (2+1) hot swappable 930W power supply
Redundant Cooling System	3 System Fans (120mm x 120mm x 38mm)
Temperature	0ºC(32F)~ 50ºC(122F)
Humidity	5% - 95% noncondensing
Chassis Material	Heavy Duty cold-rolled steel