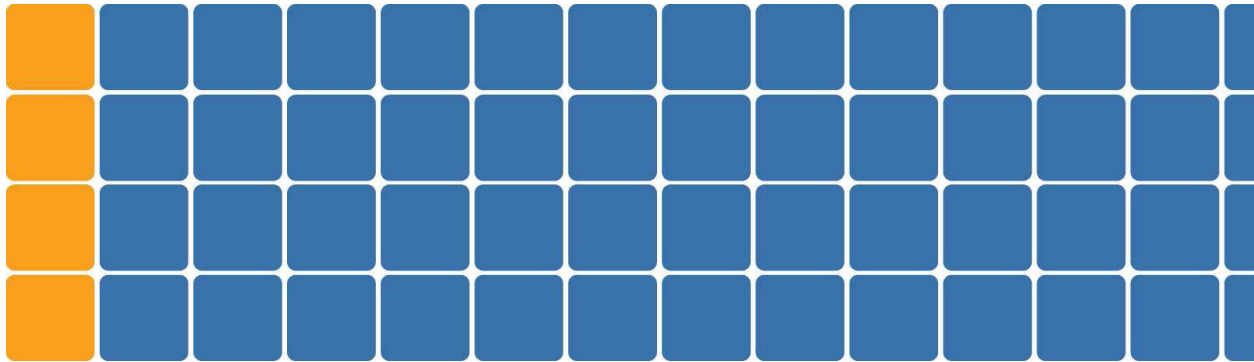




Bringing SANity to Storage Costs

Celeros *SmartSAN*[™] XT23S Series Storage Area Network (SAN)



Affordable, High Performance, Ultra Green Storage System

Features

- High availability w/ dual active-active controllers
- High performance w/ 6Gb/s SAS systems
- Ultra-low power usage
- Multi protocol SAN w/ iSCSI and FC
- Robust and intuitive storage manager GUI
- Data protection with Replication, Snapshots and Volume Copy
- Encryption services with SED drives

Celeros Advantage

The struggle to manage escalating data capacities, high availability, and increasing performance requirements will not stop, even in a slow-growth economy. Organizations from Small-to-Medium Businesses (SMBs), mid-range environments to remote sites all experience these challenges, which are often parallel to the needs that have existed for many years for large enterprises. However, for SMBs, unlike the enterprise, these challenges must be met with minimal cost and complexity.

As a leader in storage technologies, Celeros has combined best-of-breed development with leading Fibre channel and iSCSI host interface and 6Gb/s SAS drive technology in its newly introduced external storage system platform — the SmartSAN[™] XT23S Series of SAN appliances. The SmartSAN[™] storage platform, with next-generation 6Gb/s SAS backplane and dual port SAS drives technology, provides organizations with a seamless path to consolidated and efficient storage — improving performance, flexibility, scalability, and ultra-low power consumption — while not sacrificing simplicity, affordability, or availability.

ideal for

- VMware Environments
- MS Hyper-V
- Oracle Database
- MS SQL Server
- MS Exchange
- MS SharePoint
- MS Communication Server
- Departmental storage
- Remote office storage

Hardware Platform

- 6Gb/s SAS Chassis for high performance and scalability
- 15000 RPM dual port SAS Drives - 300GB, 450GB and 600GB
- Near-line dual port SAS Drives - 500G, 1TB and 2TB
- Supports RAID levels 0,1, 5, 6 and 10
- iSCSI - 4 x Gigabit Ethernet per controller
- Fibre Channel - 4 x 8Gb/s FC ports per controller

Solid performance for real business

Delivering unrelenting IOPs and throughput, the SmartSAN™ storage platform continues Celeros' tradition of balanced and sustainable performance. With up to 4,000 MB/s and 40,000 IOPs in sustained drive reads, the SmartSAN™ storage platform is equally adept at delivering throughput to bandwidth-intensive applications and IOPs to databases and Microsoft Exchange.

Green efficiencies for today and tomorrow

Concerns regarding power consumption are creeping to the forefront as hot-button IT issues as energy costs continue to rise — and the SmartSAN™ storage platform was developed with these in mind. With power supplies designed to meet multiple efficiency standards, 3.5-in. drives and SSDs, you can expect lower overall energy expenditures with the SmartSAN™ storage platform. And like all Celeros storage systems, the SmartSAN™ storage platform's exceptional per-drive performance and IOPs per watt create performance value by getting the most performance out of the fewest drives with the least amount of power consumption.

Flexibility and consolidation for lower overall costs

The SmartSAN™ storage platform can also support additional host interface cards (HIC) with four 1Gb/s iSCSI or four 8Gb/s FC host ports. This flexible and multi-purpose dual protocol approach allows organizations to implement a variety of configurations – from high performance and low-cost rack-integrated solutions to an IP or FC SAN environment for larger consolidation and virtualization projects. The SmartSAN™ storage platform can also cost-effectively support an organization's complete range of data capacity requirements with support for high performance 6Gb/s SAS drives, near-line SAS drives, self encrypting drives, and solid state drives.

Your data is protected

With a legacy of high reliability and data availability, the SmartSAN™ storage platform carries on this tradition with redundant components, automated path failover, and extensive online administration capabilities to keep your data and your organization productive 24x7x365. And with management support of self-encrypting drives (SEDs), data security for your data-at-rest is achieved throughout the drive's life cycle without

- Dual controllers SAS expansion platforms with maximum of 96 drives for up to 192TB of capacity
- Redundant, and hot swappable storage controllers, disk drives, battery backup, power supplies and cooling fans
- Automated I/O part failover and online administration
- Automatic drive failover and detection and rebuild using global hot spare
- Maximum burst I/O rate of 103,000 IOPS
- Maximum sustained transfer rate of 4,000MB/s



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sacrificing storage system performance or ease of use.



Intuitive storage management that doesn't sacrifice control

Celeros SmartSAN™ storage management software is the perfect combination of robustness and ease-of-use — two attributes not commonly found together in midrange storage. The new SmartSAN™ graphical user interface (GUI) is ideally suited for full-time storage administrators, who want complete control over their storage configuration, and part-time system administrators who need an intuitive interface that helps them ensure optimal storage utilization. And with its industry-unique dynamic capabilities, you can support on-the-fly reconfigurations without interrupting storage system IO.

SmartSAN software's fully integrated replication features allow administrators to choose the method that best meets their data utilization and protection requirements.

- Snapshot instantaneously creates capacity-efficient, point-in-time volume images, which provide a logical volume for such uses as file-restoration and backup.
- Volume Copy creates a complete physical copy — or clone — of a volume within a storage system. This unique entity can be assigned to any host and used for application testing or development, information analysis, or data mining.
- Remote Volume Mirroring, which is supported on the Fibre Channel (FC) host ports, provides storage-based data replication from one system to another to ensure data protection. And with features, such as multiple mirroring modes, dynamic mode switching, suspend/resume, secondary volume access and cross-mirroring, maximum protection and utilization are ensured.

Celeros SmartSAN™ STORAGE SYSTEMS

PERFORMANCE (WITH 96 x 15K SAS DRIVES, SAS HIC TURBO PERFORMANCE)

Maximum burst I/O rate from cache	103,000 I/Os per second
Maximum sustained I/O rate from drives	40,000 I/Os per second
Maximum sustained transfer rate from drives	4,000MB/s

CAPACITY

Maximum number of drives supported	96 drives
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SUPPORTED DRIVES

6Gb/s SAS 15K rpm (3.5-in.)	300GB, 450GB, 600GB
6Gb/s SAS 7.2K rpm (3.5-in)	500GB, 1.0TB, 2.0TB

HOST/DRIVE CONNECTIONS (PER CONTROLLER)

Four 8Gb/s FC
Four 1Gb/s iSCSI

AVAILABILITY

Automated I/O part failover and online administration
Supports RAID levels 0, 1, 3, 5, 6 and 10
Redundant, hot-swappable storage controllers, disk drives, power supplies, and cooling fans
Automatic drive failover and detection and rebuild using global hot spare
Up to 4GB of mirrored data cache with battery backup and destage to flash upon power loss per dual controller

SECURITY

Encryption services provide comprehensive security for data-at-rest

POWER SUPPLY ATTRIBUTES

Dual output up to 585W maximum wide-ranging AC input - Maximum power consumption 329W
Supports 100–240VAC input at 50 and 60Hz - All drive trays must have dual power supplies

TEMPERATURE

Operating Range	10°C to 40°C (50°F to 140°F)
Storage Range	–10°C to 50°C (14°F to 122°F)

DIMENSIONS

Height	Width (includes mounting brackets)	Depth
3.39"/86.16mm	18.99"/482.47mm	21.72"/551.60mm

WEIGHT

Module Weight	Shipping Weight
56.85 lbs (25.8 kg)	70.0 lbs (31.8 kg)