

Celeros eXtremeSAN XT23S



Applications

- Database Applications
- Online Transactional Processing (OLTP)
- E-mail
- Video Editing
- Video Surveillance
- Direct-Attached Storage (DAS) Replacement
- Archiving
- E-discovery
- Disk-to-Disk Backup
- Other iSCSI SAN Storage

Key Features

Volume Virtualization

- Online Capacity Expansion
- RAID Level Migration
- Auto-Rebuild
- Micro-Rebuild

iSCSI Performance

- Jumbo Frame Support
- Full TCP/IP Hardware Off-load Engine (TOE)
- MPIO, MCS, LAG

Standards Based Platform

- Conforms to Storage Management Initiative Spec (SMI-S)
- Enclosure Management Services

Enterprise-class Storage System Extends SMB Value to a New Level

The eXtremeSAN XT23S provides cost-effective, high-performance, scalable enterprise-class features to distributed data centers. Designed for redundancy and high availability, Active-Active dual controllers in Celeros' next generation storage products provide maximum data integrity for iSCSI storage and scale from 1 TB to over 36TB in capacity. The XT23S storage system uniquely provides up to 8Gbps full wire speed host performance – significantly exceeding the speed of today's Fibre Channel products. With its high level of integration, XT23S successfully extends Celeros' renowned price/performance, robust virtualization, energy efficient ("Green") iSCSI RAID storage solutions for IP Storage Area Networks (SANs) to environments where maximum data protection and availability is not only desired but required. Celeros unit comes with 1 year of Next Business Day Onsite support (US only).

Flexible Expansion

XT23J platforms provide easy, unencumbered capacity expansion to the XT23S and extend its 12TB maximum capacity up to 36TB. The two separate 4 x SAS interfaces from the two controllers on XT23S to the expansion chassis provide a redundant 12+12Gbps intra-chassis high speed data channel that in combination with 8 Gigabit Ethernet ports on XT23S provide scalability without loss of performance.

By supporting both SAS and SATA disks, XT23S offers compelling block-based network storage solutions for primary, tiered, and near-line storage applications.

Robust Storage Virtualization

The heart of the XT23S storage system is a next generation "Storage System on a Chip" designed to accelerate iSCSI

RAID, along with Celeros' advanced storage virtualization firmware, which enables the XT23S to be the industry's most advanced iSCSI storage system at attractive pricing.

XT23S delivers enterprise data protection capabilities such as media protection, battery-backed caching, redundancy, and RAID virtualization that meet the storage requirements of both large and small customers. By utilizing the fundamental building blocks of storage extents, the XT23S provides features such as RAID level migration, online capacity expansion, down drive and "virtual spare" rebuild. Extents enable optimized storage utilization, volumes that can be created from drives of dissimilar capacity and technology, growth that can occur without volume migration or reconstruction, and multiple divergent RAID technologies occupying space on the same drive.

Secure, High-Performance iSCSI SAN Networking

XT23S is designed for both the most demanding transaction processing workloads and bandwidth intensive applications. XT23S supports Multi-path I/O (MPIO), Multiple Connections per Session (MCS), and Link Aggregation Group (LAG) for performance and resiliency. XT23S secures iSCSI data connections, using CHAP authentication, VLAN “zoning,” and initiator ACL “LUN masking.” Management connections are protected with SSL encryption.

Security Features

- CHAP Authentication
- VLAN Support
- Initiator ACL
- SSL Encryption
- Read-only Volumes

About Celeros

At Celeros our mission is to make reliable, high performance storage solutions that are easy to operate and affordable. While we do not have any religion with respect to the type of technology that can help our customers, we are ardent believers in choosing appropriate technologies that cost effectively solve today's problems and scale to address tomorrow's needs.



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eXtremeSAN™ XT23S

Intuitive Management

XT23S includes a management graphical user interface (GUI) with an easy “4-click” installation that greatly reduces configuration time so IT managers can focus their valuable resources on supporting their users instead of maintaining equipment. Celeros’ comprehensive storage management suite allows remote configuration and monitoring of XT23S’s SAN storage subsystems. This embedded IP-based management console is rich in features, allowing users to install, configure, and maintain their online network storage with uncommon ease and flexibility. Communication is via a standards-based Storage Management Initiative (SMI-S) interface which is embedded directly in the management console for ease of deployment.

iSCSI Network Interface

Host Connectivity	1GbE x 8 ports, RJ45 connectors
Connections	1,024
Network-based Security	CHAP Authentication, Initiator Access Control (ACL), VLAN
iSCSI/TCP/IP Full HW Offload	Yes
Jumbo Frame Support	Yes

Expansion Chassis Interface

Two (x4) SAS expansion ports	Controls up to 36 drives across two expansion units
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Volume and RAID Support

RAID Support	RAID Levels 0, 1, 1+0, 5 and JBOD (Striped sets, mirrored sets, parity sets, striped mirrored sets)
Volumes / Target Nodes	1,024 Virtual Volumes / 1,024 Target Nodes
VLANs Supported	Up to Eight VLANs
Data Protection	“Virtual Spare”, Auto-Rebuild, Micro-Rebuild, Auto-Detection of Failed Drive
Volume Operations	Microsoft Volume Shadow Copy Service (VSS)
Drive Operations	Instant Volume Access during initialization, RAID Level Migration, Online Capacity Expansion, Down Drive, Drive Roaming, Hot-Swappable Drives
Battery backed-up cache size	2GB standard; 4GB option

Storage Management

Embedded SMI-Based GUI	Create, manage, expand, and monitor storage pool, volumes & RAID. Manager to view and set events.
Firmware Field Upgradeable / SMI-S Version 1.1	Yes / Yes

OS , HBA, NIC Support

Operating Systems Supported	Windows® 2000/2003; Red Hat Linux; SuSE Linux; Mac® OSX; VMware ESX Server; emBoot winboot/i
iSCSI Host Bus Adapters and NICs Supported	QLogic® QLA/QLE; Alacritech® SES; Intel® Pro; Broadcom; RealTek; Neterion Xframe; Myricom

Power

Type / Input Voltage / Frequency / Current	Redundant dual 430 watt / 85-264 VAC (auto-switching) / 50-63 Hz / 2A maximum at 115 VAC
Power Consumption / Thermal	250 W (single controller, full configuration) / 855 BTU per hour (single controller, full configuration)

Environmental

Operating / Storage Temperature	41° to 104° F (5° to 40° C) / -40° to 158° F (-40° to 70° C)
Operating / Storage Humidity	10 to 80% non-condensing / 5 to 95% non-condensing

Physical

Form Factor	2U industry-standard 19” rack
Height x Width x Depth	3.5” x 17.6” x 19.5”
Weight	60 lbs full configuration

Standards

Emissions	CE Mark, FCC Class A, EN55022 Class A, EN55024
Safety / RoHS	UL/CUL, CSA International / Compliant