



Bringing SANity to Storage Costs

SAS/SATA Platform Datasheet



By combining RAID array technology with high throughput Serial Attached SCSI (SAS, 15Krpm) and high capacity Serial ATA (SATAII, 7200rpm) disk drives, Celeros extends the benefits of consolidation and centralization to the small and medium size enterprises. Running on such familiar technologies as IP and Ethernet, small and medium size organizations or remote and satellite sites in large enterprises eliminate the need for specialized expertise to manage storage assets. Celeros' value proposition is very simple: tons of reliable, high performance full featured storage at very affordable prices.

Celeros Platforms With Rock Solid Reliability

- **Hot swappable Hard drives:** All disks can be replaced (hot swapped) in case of drive failure without affecting the operation of the appliance.
- **Network Path:** Minimum of two Gigabit Ethernet connections ensures high availability even when a network path fails.
- **RAID support:** Hardware RAID levels 1, 5, 6, 10, 50 and 60 for fault tolerant disk arrays
- **Redundant Power Supplies & Cooling:** Enterprise class platforms are equipped with redundant power supplies and fans
- **Battery Backup for RAID Cache:** RAID controller caches are backed up by batteries in case of a power failure (standard on most platforms)


SAS/SATA Platforms


SAS/SATA platform features:

- Screaming Performance - Quad core XEON, generous cache
- High Capacity - Up to 48TB in a single platform
- Scalability - Up to 120TB with wide SAS Expansion Module
- Reliability - HW RAID controller w/ battery backup, Multiple Network Interfaces, Redundant/HS Power Supplies



Model	X100S
Chassis Height	1U (1.7")
Drives	4 x 3.5" (SAS or SATA) drives
Capacity	8TB (4x 2TB)
Processor	Pentium Dual Core
Cache	2GB
Network	2 x 1GbE
RAID	0, 1, 5, 6, 10, 50, 60
Expansion	Wide SAS Expansion Module
Power Supplies	280W AC power supply w/ PFC 450W (1+1) Redundant PS optional
Cooling	4 x 40mm redundant fans
Temperature	10° - 35° C (50° to 95° F)
Humidity	8% - 90% non-condensing
Dimensions	W17.2" x D19.8" x H1.7"
Indicators	Power, Network and HDD LEDs



Model	X11S	
Chassis Height	1U (1.7")	
Drives	4 x 3.5" (SAS or SATA) drives	
Capacity	8TB (4x 2TB)	
Processor	Quad Core XEON	
Cache	2GB	
Network	2 x 1GbE	
RAID	0, 1, 5, 6, 10, 50, 60	
Expansion	Wide SAS Expansion Module	
Power Supplies	560W high efficiency, 80 PLUS certified Redundant PS optional	
Cooling	8 x 40mm redundant fans	
Temperature	10° - 35° C (50° to 95° F)	
Humidity	8% - 90% non-condensing	
Dimensions	W17.2" x D26" x H1.7"	
Indicators	Power, Network and HDD LEDs	



Model	X23S
Chassis Height	2U (3.5")
Drives	12 x 3.5" (SAS or SATA) drives
Capacity	24TB (12 x 2TB)
Processor	Quad Core XEON
Cache	6GB
Network	4 x 1GbE - (2 x 10GbE - optional)
RAID	0, 1, 5, 6, 10, 50, 60
Expansion	Wide SAS 2.0 Expansion Module
Power Supplies	800W (1+1) hot swap, redundant, high efficiency
Cooling	3 x 80mm hot swap fans
Temperature	10° - 35°C (50° to 95° F)
Humidity	8% - 90% non-condensing
Dimensions	W17.2" x D26" x H3.5"
Indicators	Power, Network and HDD LEDs



Model	X46S
Chassis Height	4U (7")
Drives	24 x 3.5" (SAS or SATA) drives
Capacity	48TB (24x 2TB)
Processor	Quad Core XEON
Cache	6GB
Network	6 x 1GbE - (2 x 10GbE - optional)
Fibre Channel	2G, 4G, 8G single or dual - optional
RAID	0, 1, 5, 6, 10, 50, 60
Expansion	Wide SAS 2.0 Expansion Module
Power Supplies	900W (1+1) hot swap, redundant, high efficiency
Cooling	5 x 80mm hot swap fans
Temperature	10° - 35°C (50° to 95° F)
Humidity	8% - 90% non-condensing
Dimensions	W17.2" x D26" x H7"
Indicators	Power, Network and HDD LEDs



Model	X34S
Chassis Height	3U (5.25")
Drives	16 x 3.5" (SAS or SATA) drives
Capacity	32TB (16x 2TB)
Processor	Quad Core XEON
Cache	6GB
Network	6 x 1GbE - (2 x 10GbE - optional)
Fibre Channel	2G, 4G, 8G single or dual - optional
RAID	0, 1, 5, 6, 10, 50, 60
Expansion	Wide SAS 2.0 Expansion Module
Power Supplies	800W (1+1) hot swap, redundant, high efficiency
Cooling	5 x 80mm hot swap fans
Temperature	10° - 35°C (50° to 95° F)
Humidity	8% - 90% non-condensing
Dimensions	W17.2" x D26" x H5.25"
Indicators	Power, Network and HDD LEDs



Model	X49S
Chassis Height	4U (7")
Drives	36 x 3.5" (SAS or SATA) drives
Capacity	72TB (36 x 2TB)
Processor	Quad Core XEON
Cache	6GB
Network	6 x 1GbE - (2 x 10GbE - optional)
Fibre Channel	2G, 4G, 8G single or dual - optional
RAID	0, 1, 5, 6, 10, 50, 60
Expansion	Wide SAS Expansion Module
Power Supplies	1100W (1+1) hot swap, redundant, high-efficiency
Cooling	7 x 80mm hot swap fans
Temperature	10° - 35°C (50° to 95° F)
Humidity	8% - 90% non-condensing
Dimensions	W17.2 x D27.5" x H7"
Indicators	Power, Network and HDD LEDs

SATA Platforms

SATA platform features:

- Screaming Performance - 2 x Quad core XEON, generous cache
- High Capacity - Up to 96TB in a single platform
- Scalability - Up to 190TB with wide SAS Expansion
- Reliability - HW RAID controller w/ battery backup, Multiple Network Interfaces, Redundant/HS Power Supplies



Model	X810
Chassis Height	8U (14")
Drives	42 x 3.5" SATA drives
Capacity	80TB (40x 2TB)
Processor	2 x Quad Core XEON
Cache	8GB
Network	6 x 1GbE - (2 x 10GbE - optional)
Fibre Channel	2G, 4G, 8G single or dual - optional
RAID	0, 1, 5, 6, 10, 50, 60
Expansion	Wide SAS 2.0 Expansion Module - optional
Power Supplies	1350W (3+1) hot swap, redundant, high efficiency
Cooling	5 x 120mm hot swap fans
Temperature	0° - 50°C (32° to 122° F)
Humidity	5% - 95% non-condensing
Dimensions	W19" x D27" x H14"
Indicators	Power, Network and HDD LEDs



Model	X512
Chassis Height	5U (8.75")
Drives	48 x 3.5" SATA drives (top loading)
Capacity	96TB (48x 2TB)
Processor	2 x Quad Core XEON
Cache	8GB
Network	6 x 1GbE - (2 x 10GbE - optional)
Fibre Channel	2G, 4G, 8G single or dual - optional
RAID	0, 1, 5, 6, 10, 50, 60
Expansion	Wide SAS 2.0 Expansion Module - optional
Power Supplies	1350W (3+1) hot swap, redundant, high efficiency
Cooling	5 x 120mm hot swap fans
Temperature	0° - 50°C (32° to 122° F)
Humidity	5% - 95% non-condensing
Dimensions	W19" x D34" x H8.75"
Indicators	Power, Network and HDD LEDs

SAS Expansion Platforms

SAS Expansion Platform Features

- Supports SAS and SATA drives
- Screaming Performance
- High Capacity - Up to 96TB in a single platform
- Scalability - Up to 190TB with wide SAS Expansion
- Reliability - Single/Dual controllers, Redundant/HS Power Supplies



Model	X23J
Chassis Height	2U (3.5")
Drives	12 x 3.5" (SAS or SATA) drives
Capacity	24TB (12 x 2TB)
Interface	Single/Dual Wide SAS
Power Supplies	800W (1+1) hot swap, redundant, high efficiency
Cooling	3 x 80mm hot swap fans
Temperature	10° - 35°C (50° to 95° F)
Humidity	8% - 90% non-condensing
Dimensions	W17.2" x D26" x H3.5"
Indicators	Power and HDD LEDs



Model	X34J
Chassis Height	3U (5.25")
Drives	16 x 3.5" (SAS or SATA) drives
Capacity	32TB (16x 2TB)
Interface	Single/Dual Wide SAS
Power Supplies	800W (1+1) hot swap, redundant, high efficiency
Cooling	5 x 80mm hot swap fans
Temperature	10° - 35° C (50° to 95° F)
Humidity	8% - 90% non-condensing
Dimensions	W17.2" x D26" x H5.25"
Indicators	Power and HDD LEDs



Model	X49J
Chassis Height	4U (7")
Drives	45 x 3.5" (SAS or SATA) drives
Capacity	90TB (45 x 2TB)
Interface	Single/Dual Wide SAS 2.0
Power Supplies	1400W (1+1) hot swap, redundant, high-efficiency
Cooling	7 x 80mm hot swap fans
Temperature	10 - 35° C (50° to 95° F)
Humidity	8% - 90% non-condensing
Dimensions	W17.2 x D27.5" x H7"
Indicators	Power and HDD LEDs



Model	X46J
Chassis Height	4U (7")
Drives	24 x 3.5" (SAS or SATA) drives
Capacity	48TB (24x 2TB)
Interface	Single/Dual Wide SAS
Power Supplies	900W (1+1) hot swap, redundant, high efficiency
Cooling	5 x 80mm hot swap fans
Temperature	10° - 35° C (50° to 95° F)
Humidity	8% - 90% non-condensing
Dimensions	W17.2" x D26" x H7"
Indicators	Power and HDD LEDs



Model	X412J
Chassis Height	4U (7")
Drives	48 x 3.5" (SAS or SATA) drives
Capacity	96TB (48x 2TB)
Interface	Single/Dual Wide SAS
Power Supplies	500W 3+1 hot-swap redundant PFC
Cooling	2 x 80x38mm easy-swap Middle: 5 x 60x38mm hot-swap
Temperature	0° C(32° F) ~ 50° C(122° F)
Humidity	5%-95% non-condensing
Dimensions	W19", D27", H7"
Indicators	Power and HDD LED's



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