



STORAGE SOLUTIONS

The **BULLET**

AV-optimized RAID Series

High performance density,
flexible scalability,
up to 64TB capacity

-Introducing The Bullet RAID-

High-performance, High-availability, High Capacity

It works with **Mac OSX®** and comes complete with SANWatch Storage management software.

The Bullet represents an evolution in storage for **AV & Apple® users**.

It was developed to deliver the **best overall performance** for Apple users

It can be deployed in a direct-attach or a SAN environment, the Bullet is **the ideal solution** for your Mac storage needs.

The system comes fully configured and ready to use right out of the box

Up to 3 Streams of 10-bit 1080 HD/video Combine 2 raid units into a Raid 0 and get over **8 Streams**

Shooting Fast performance and Bulletproof reliability!

System	12 TB SAS/SATA RAID	12 TB SAS/SATA Expansion
Drive and total Capacity	16 750 GB SATA or SAS Hard Drives Capacity of up to 64* TB with 3 Expansion Enclosures	16 750 GB SATA or SAS Hard Drives Up to 3 expansion enclosures per RAID system
Controller Configuration	Redundant Dual Hot swap controllers, running dual-independent firmware with 4-4Gb/s FC connections per controller and 2GB Cache per controller built in Battery Backup	Dual SES Modules with 4-Wide SAS connections (2in-2out), Redundant hot swap power supplies and cooling modules
Power and Cooling	Redundant host swap power supply and cooling modules.	Redundant host swap power supply and cooling modules.
Service and Warrantee	1 year PSP onsite with 3 yr. RTF Warranty	1 year PSP onsite with 3 yr. RTF Warranty
Rack Mount Kit	Included	Included
US Retail Price	\$11,999.00	\$8,999.00

For other Configurations Call Your CONDRE Sales Professional

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Technical Specifications

RAID Support:

RAID Levels- JBOD 0,1,5,6,10,50,60.

- **LUN Support**-Up to 1024 LUNS
- **Drive Roaming Support**-Complete drive roaming, even between enclosures.
- **Redundant**-True Active/Active or Dual Independent configuration for high performance.
- **Background media scan for disk maintenance.**
- **Automatic rebuild when a drive fails.**
- **Global or Dedicated Hot Spare drive support.**
- **Multiple Hot Spare Drive Support.**
- **Automatic Spare Assigning.**
- **S.M.A.R.T. support.**
- **Automatic bad sector reassignment**
- **IOsmart** allows for the flexible configuration of logical drives, logical volumes and logical partitions and ensures instant RAID availability via background logical drive initialization. Fibre loops' load balancing is provided within the subsystem. The firmware's Adaptive Write Policy and Guaranteed Latency I/O algorithms improve write performance and ensure fast and continuous data flow.
- **DrvSmart** utilities manage disk drive defects and help ensure data integrity. One of the main DrvSmart functions, Media Scan, retrieves data from degraded or damaged hard drives and handles low quality drives in both the degraded mode and during the rebuild process. Other DrvSmart features include disk cloning, drive roaming, SMART, transparent resetting of non-responsive hard drives, RAID parity update tracking and recovery.
- **SysSmart** combines enclosure monitoring and firmware management capabilities in order to minimize the chance of down time caused by hardware failures. The SysSmart functions include the event-triggered cache flush and the various monitoring approaches combined with the powerful RAIDWatch manager. Component status, voltage and temperature readings, and system events are instantly revealed through the manager's graphical interface.
- **Onboard audible alarm.**

Configuration Options:

- 64 total drive support SATA II or SAS drives.
- Multiple RAID sets within the same system.
- Connectivity 2 4 GB Fibre Channel host ports per controller. 1 SAS expansion port per controller. 1 100 Mb Ethernet port and 2 serial ports, 1 for out of band management and configuration and 1 for UPS support.
- Front LCD screen for quick setup and information.
- Tagged command queuing up to 256.
- Variable stripe size per logical drive
- Optimization setting for random or sequential I/Os.
- Online Expansion by Adding New Drives or by copying and replacing drives with larger capacity.
- Clone and Replace for failing drives has better performance and takes less time than a RAID rebuild.
- Configurable stripe size and write policy per array.
- Intelligent reactive and preventive mechanisms: Automated Cache Flush, Automated Media Scan and Automated Caching mode or Adaptive Cache.

Management and Monitoring:

- SSL connectivity.
- Multiple level severity notification setup.
- Event notifications sent over email, fax, LAN broadcast, SNMP traps, MSN messenger, SMS short messages.
- Embedded SANWatch for managing and monitoring.
- SANWatch Software to manage and monitor a single or multiple RAID systems, with Snap-Shot available.

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