

Save

Storage with Less Risk and More Reward

ULTAMUS[®] RAID 1200

IT departments face an ever-changing set of application demands, cost constraints and business requirements. As IT departments wrestle with these divergent issues, they are looking for a new generation of solutions to give them the tools they need, at the price they can pay, for the requirements they have. The ULTAMUS RAID 1200 is a new breed of storage solution that provides the advanced features, performance and flexibility to make IT departments as efficient and dynamic as the businesses they support.

Performance, Protection & Capacity

Each application running in the data center has specific performance, protection and management requirements. The ULTAMUS RAID architecture supports the latest SAS and SATA technologies to provide IT managers the flexibility to adjust the performance of their storage. SAS provides high performance for transactional, production and web applications. SATA drives offer high capacity at low cost for data protection and disk-to-disk backup.

Continuous High Availability

Continuously available applications demand continuously available data storage. ULTAMUS RAID delivers on this requirement through a tiered approach to high availability:

- Redundant and hot swap RAID controllers that stay constantly synchronized using dedicated SAS connections; redundant and hot swap disk drives, power supplies and cooling systems.
- RAID controller cache is battery-backed to ensure against data loss in the event of a power failure. Each battery-backed RAID controller also has two connections to the SAN to further ensure non-stop access.
- Hardware-accelerated RAID 6 preserves data integrity and non-stop access to data—without reducing performance—should more than one disk drive in a RAID set fail.

- ULTAMUS RAID path manager completes Overland's tiered approach to high availability by automatically and dynamically switching application data access from a failing path to a working, redundant path—regardless of the failing SAN component.

Single Pane of Glass Management

The ULTAMUS RAID manager offers simple, intuitive, web-based "single pane of glass" setup, configuration and management for all your ULTAMUS RAID products—wherever in the world they may be located. In addition, ULTAMUS RAID offers SNMP and SMI-S capabilities for easy integration into existing enterprise management frameworks.

Raising the Level of RAID

ULTAMUS RAID supports RAID levels 0, 1, 5, 10, 50 and the new, ultra-high availability RAID 6. RAID 6 ensures data integrity even if two drives fail simultaneously in the same RAID set.

Protecting Your Investment

Technological obsolescence forces too many storage products to grow old and be retired before their time. ULTAMUS RAID delivers investment protection by supporting the latest SAS and SATA drive technologies, and offering up to 60 drives and more than 60 TB of storage. In addition, ULTAMUS RAID's quad 4 Gb/sec Fibre Channel SAN connectivity, coupled with its ultra high-speed point-to-point SAS architecture, gives you the foundation to deliver more robust, high-performance applications and meet end user service levels.

For more than 27 years, businesses have trusted Overland Storage to protect their most valuable information with industry-leading backup and recovery solutions. Overland's family of disk and tape solutions, combined with our superior service, support and quality focus, ensure that your data is automatically safe, readily available and always there.



- ➔ Cost-effective Fibre Channel SAN RAID storage for Windows, Linux and other server platforms
- ➔ Up to 12 TB of capacity fully expands to 60 TB
- ➔ Expandable up to 60 SAS (10k and 15k) and/or SATA II drives
- ➔ Multiple 4 Gb/sec FC
- ➔ Supports RAID levels 0, 1, 5, 6, 10, 50
- ➔ Web-based management interface
- ➔ Active/active RAID controllers, cableless design and hot-swap components

ULTAMUS® RAID 1200

DATA TYPE	TYPICAL APPLICATIONS	RECOMMENDED DRIVE TYPE
OLTP (Online Transaction Processing)	Databases (SQL, MySQL, Oracle)	SAS
Bulk (large files)	Backup to Disk, Disaster Recovery, Multimedia, Digital Imaging, File and Print, Data Warehousing	SATA II
Mixture of OLTP and Bulk	E-mail, Web Servers, E-commerce, MRP, ERM, CRM, ILM, Compliance, Data Mining, other typical business applications	Mixture of SAS and SATA II

SPECIFICATIONS

ULTAMUS RAID 1200

ULTAMUS RAID 1200x

FUNCTIONALITY

SATA II drives
Base System/expansion capacity
Raw Capacity

SAS drives
Base System/expansion capacity
Raw Capacity

MULTIPLES OF 6 DRIVES USING 750 GB OR 1 TB SATA
(6) 750 GB (6) 1 TB
4.5 TB up to 9 TB 6 TB up to 12 TB
MULTIPLES OF 6 DRIVES USING 146 GB (15K)
300 GB (15K) AND 400 GB (10K) SAS
(6) 146 GB (6) 300 GB (6) 400 GB
876 GB (up to 1.75 TB) 1.8 TB (up to 3.6 TB) 2.4 TB (up to 4.8 TB)

MULTIPLES OF 12 DRIVES USING 750 GB OR 1 TB SATA
(12) 750 GB (12) 1 TB
9 TB 12 TB
MULTIPLES OF 12 DRIVES USING 146 GB (15K)
300 GB (15K) AND 400 GB (10K) SAS
(12) 146 GB (12) 300 GB (12) 400 GB
1.75 TB 3.6 TB 4.8 TB

STANDARD HARDWARE & SOFTWARE FEATURES

RAID Controller
External Interfaces
RAID Level Support
Performance
Availability

Cache Memory
Graphical management interface

Snapshot

Single or Dual Active/Active RAID controllers; field upgradeable from single to dual controller configuration
Two, 4 Gb/sec Fibre Channel per controller; 1/2/4 Gb/sec FC auto negotiation
RAID 0, 1, 5, 6, 10 and 50
Up to 380 MB/sec per host channel; configurable stripe width; 40,000 IOPS per controller
Redundant, hot swappable RAID controllers, cooling systems, power supplies and disk drives
Dual controller: Automatic failover / failback, online firmware upgrades; field upgradeable from single to dual controllers
1 GB DDRII with ECC per controller
Configures, monitors and maintains RAID configurations, enclosures and sub-enclosure elements including controllers, batteries, alarms, fans, temperature sensors, power supplies and disk drives
4 snapshots, manually initiated, upgradeable to 512

NOTIFICATION METHODS

POWER REQUIREMENTS

Voltage
Frequency
Average Power

SNMP, SMI-S, SMTP e-mail alerts, event log files
100 - 240VAC
50/60Hz
300W

ENCLOSURE

Height x Width x Depth
Weight

3.46" x 19" x 22.72" (87.9mm x 483mm x 577mm)
70.4 lbs (with drives); 31 kg (with drives)

ENVIRONMENTAL

Temperature, Humidity, Altitude (Operating)
Temperature, Humidity, Altitude (Non-Operating)
Shock (Operating)
Shock (Non-Operating)
Vibration (Operating)
Vibration (Non-Operating)

Relative Humidity: 8% to 80% (non-condensing); Temperature: 41°F to 104°F (5°C to 40°C)
Altitude (sea level) 0 to +10,000 ft (0 to 3,045 m)
Relative Humidity: 8% to 80% (non-condensing); Temperature: 34°F to 122°F(1°C to 50°C)
Altitude (sea level) -1,000 to +40,000 ft (-305 to 12,192 m)
Vertical axis 5g peak fi sine, 10 ms
30g 10 ms fi sine
0.21grms 5 – 500 Hz Random
1.04 grms 2 – 200 Hz Random

AGENCY CERTIFICATIONS

Listed by Underwriters Laboratories Inc. in accordance with UL 60950-1; CE EN 60950-1; IEC 60950-1

ELECTROMAGNETIC

European Union EN55022 (CISPR – A), FCC Part A

ROHS COMPLIANCE

Complies with Directive 2002/95/EC of the European Parliament and of the Council of 27 January 2003 on the restriction of the use of certain hazardous substances in electrical and electronic equipment

SOFTWARE

Microsoft Windows Server 2003 WHQL: Microsoft RAID System Submission - MPIO 2-Node Cluster, VMware Infrastructure 3 (VI3), FalconStor IPStor and VTL, Exanet ExaStore, DataCore SANmelody, SANRAD V-Switch, RELDAPA Unified Storage Gateway

STANDARD WARRANTY

3-year Hardware, XchangeNow®. Extended Service Options available.

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