

Sol™ Array SS16

Ultra320 SCSI / 2Gb Fibre Channel

Sol™ Array SS16 series of RAID is an U320 SCSI drive based RAID supporting 2Gb FC or U320 SCSI as the host interface fulfills versatile applications and environments with its highest reliability and best performance. With the modular hardware design, years of RAID design/manufacturing experience, and configurable firmware features, SS16 makes it the ideal choice for data intensive applications users and storage solution providers.



Requirements of a RAID system vary with applications and environments. The Sol Array SS16 provides complete functionalities for users to construct and magnate storage infrastructure. These features can be used for different market requirement.

Advanced Features

- 64-bit RISC CPU (Intel 80321, 600Mhz) RAID processor, High speed PCI-X internal bus and Hardware XOR
- 128MB Standard Cache, Up to 1GB ECC Data Cache per controller, supports mirrored cache in dual RAID controllers configuration (optional)
- RAID levels 0, 1, 0+1, 3, 5, 30, 50, NRAID, Global hot-spare setup
- Built-in environmental sensors for temperature/voltage/predictive analysis capability for Self-Diagnostics
- Optional Active/Active and Active/Passive redundant configurations
- Configurable to Two Ultra320 SCSI Host ports (320MB/sec per port) support Ultra Wide, Ultra2 SCSI
- Two to Four Ultra320 SCSI (320MB/s) Disk channels for maximized capacity and performance
- Selectable 8, 12, and 16 bay 19" rack mount that meets RETMA standard options. Optional Deskside Pedestal kit
- Java-based GUI RAID Management locally or remotely via TCP/IP provides configuration, management, monitoring. notification via beeper, email, pager, ... Optional Ethernet port for out-of-band management
- Online Dynamic RAID set Expansion, Array Roaming, HDD Traveling
- Disk Scrubbing and disk cloning
- Support Battery backup protection (up to 72Hr)
- Upgradeable to Fibre Channel 2Gb host port

Ultra320 SCSI

Performance

Availability

Scalability

Reliability

Capacity

Flexibility

Technical Spec.

System Architecture	64-bit RISC (Intel 80321, 600Mhz) RAID processor
Dual Controller Option	Dual Redundant, and Hot-swappable Active/Active or Active/Passive failover Technology
Host Bus Interface	One or Two Ultra320 SCSI (320MB/sec), upgradeable to 2Gb Fibre Channel
Disk Bus Interface	2 or 3 Ultra320 SCSI (320MB/sec), upgradeable to 5 (SCSI) or 4 (FC model)
Command Queuing	255 commands (host and disk SCSI channels)
Cache	Up to 1GB per controller
Battery Option	Cache Battery backups data in cache for 72hr
Logical Unit Number	Up to 128 LUNs per host port with configurable sector size
Operating System Supported	Any O/S supporting standard SCSI with block size of 512bytes and SCSI LUNs
Online Modifications	On-line RAID set expansion, and firmware upgrades
Cooling	Two Auto-sense Dual Speed 40CFM hot-swap fans
Power Supply	Three 250-Watt load-sharing hot-swap power supplies
Alarm	Visual and audio alarms for HD, failover controllers, power, fan, and temperature
I/O Ports	4 Ultra320 SCSI Channel, 2 RS232
Hard Drive Connections	Passive Backplane for SCA Hot-swap HDD. Optional SCSI Wide 68pin cables.

Environmental

Temperature	Operating - 5°C to 50°C	Storage - -20°C to 85°C
Relative Humidity	5%-95% Non-Condensing	
Altitude	Operating - 0 ft. to 10,000 ft.	Storage - 0 ft. to 30,000 ft.

Physical

Installation	19" RETMA rack mount with slide rails. Optional Deskside Pedestal kit
Dimension	19" W x 20"D x 5.25"H (3U, 16 x HD bay)
Weight	48Lbs

Electrical

DC Output Power	250Wx3 Load Balance / Redundant / Hot Swap +5VDC : 45A / 20A -5VDC : 1.0A / 0.5A +12VDC : 36A / 18A -12VDC : 1.0A / 0.5A
AC Input Power	Voltage : 90VAC to 220VAC Frequency : 47Hz to 63Hz Protection : 12A / 250V Fuse



Models

SS16-U320	Ultra320 SCSI x 2 Host channel
SS16-F2	2Gb Fibre Channel x 2 Host channel