



# IntelliSTOR Direct Attached Storage

- Data rate up to 300 MB per channel and 485 MB for dual channel system
- Internal SAS architecture to support both SAS and SATA HDDs. Support up to 128 HDDs for maximum of 128TBs of storage capacity - Optional feature
- Dual U320 SCSI or SAS ports for load-balancing and failover
- Certified for server clustering
- Hot Swappable HDDs, cooling fans and power supply
- Real time auto volume rebuilding
- Fully modularized cable-less back pane enclosure design
- Backward-compatible SATAII drive interface
- Industrial leading RAID 6 technology
- Local N-way mirror for high data protection
- On-line volume migration with no system down-time
- HDD S.M.A.R.T.enabled



### High Value with unbeatable ROI

IntelliStor Direct Attached SCSI Storage Subsystem is an affordable storage solution for all businesses. With optional SAS platform, IntelliStor can provides up to 128 TB capacity of reliable Storage. In addition, a dual SCSI or SAS (optional) bus design maximizes storage bandwidth with work load balancing and failover. IntelliStor is a truly sophisticated and fully integrated storage solution that extends the life of current SCSI infrastructures and avoids the cost of transitioning to network storage architecture.

### High Performance

IntelliStor direct attached storage delivers an industry leading SCSI RAID storage performance by reaching record rates of 300 MB/sec for a single channel and 485 MB/s for a dual channel. This ground-breaking performance is achieved by a powerful Intel 64-bit RISC processor and multi-stream data caching. 3Gen Data Systems specially engineered IntelliStor to handle the most performance demanding workloads, from real-time video recording to large amounts of random, small-block I/O transactions, such as web page retrieval.

### High Availability and Advanced Data Protection

IntelliStor supports all RAID levels including 0, 1, 3, 5, 6, 0+1, 10, 30, 50, 60 and JBOD. RAID 6 guarantees data integrity by storing two distributed set of parties and tolerating two simultaneous HDD failures. Additionally, IntelliStor series utilizes fully modularized design that replaces all the cables with connectors. To address mission critical application, all rackmount models include dual redundant cooling fans, dual power supply and dual independent active-active RAID controller (RM120 only) that provide unmatched performance and reliability. Finally, our customers can enjoy the same valuable data protection feature as the traditional Fortune 100 companies.

### High Usability

IntelliStor includes an Ethernet management port that allows users to manage the RAID systems via web browsers from any place in the world. All disk, volume, cache and RAID levels can be configured and monitored by our user-friendly web based management interface with graphical status indicators. While 3Gen's products are always on the cutting-edge, our customers can rest assured that easy-to-use stays on top of 3Gen's design philosophy. 3Gen is committed to bringing advanced Information Life Cycle Management features to small and medium businesses.



# Data Specifications



## General

- Product Type: RAID, JBOD
- Storage Architecture: U320 SCSI or SAS
- Total Capacity: 2TB / 128TB (SAS - optional)
- Total Disks: 8 / 128 (SAS - optional)
- Disk Interface: Serial ATA-II or SAS (optional)
- RAID Controller(s): Single (RM40, RM60 & RM80)  
Dual (RM120)

## Models

- Rackmount
  - RM40 – 8 disks (2U) SATA RAID only
  - RM60 – 12 disks (2U) SAS or SATA RAID & JBOD
  - RM80 – 16 disks (3U) SAS or SATA RAID & JBOD
  - RM120 – 24 disks (4U) SAS or SATA RAID & JBOD

## Hosts

- Interface: U320 SCSI or SAS
- External Ports: 2 / 4 (RM120)

## Processor

- Intel 80331 64-bit 500 MHz RISC processor
- Up to 2GB-DDR 333 Unbuffer / Registered DIMM
- Battery backup memory mechanism

## Performance

- Single Channel 300 MB and Dual Channel 485 MB

## Availability

- Modularized cableless back pane enclosure
- N-way mirror
- Dual U320 SCSI or SAS ports load-balancing or failover
- Certified for server clustering
- Hot swappable HDDs, dual power supply and dual cooling fans

## RAID:

- Support RAID level: 0,1,3,5,6,0+1,10,30,50,60 and JBOD
- Support up to 128 logical volumes
- Support write-through or write back cache policy
- Multiple RAID volume support
- Configurable RAID height
- Online RAID volume expansion and volume availability
- Real time auto volume rebuilding
- Smart faulty sector allocation
- RAID roaming

## Management:

- 1 FastEther port for web-based management
- UARTs for serial console management and UPS

## Environmental

- Temperature
  - Operating: +5 °C to +35 °C
  - Non-operating: -10 °C to +60 °C
- Relative Humidity
  - 20% to 80% non-condensing

## Power Supply

- Dual 375W Power Modules (2U) or 460W Power Modules (3U, 4U)
- Electric – AC Input
  - Voltage: 100-240 VAC at 50/60 Hz, single phase
  - Current: 5.0A maximum per input
- Electric – DC Input
  - Voltage: -48VDC or -60VDC
  - Current: 18A maximum per input