Nova 6G SAS RAID Subsystem

Hybrid Controller | **Symmetric Redundancy** | **Remote Replication** | **Embedded Snapshot** | **SED**

High Performance, High Availability, Easy Management

The Nova series implement next generation 8Gb FC, 10Gb iSCSI and 6Gb SAS technology with balanced performance, hybrid interface and rich features, make it a great fit for high performance demanding digital content creating and Enterprise virtualization environments.

The Nova SAS features with 1.2GHz IOP plus 6Gb SAS single x 2 or dual x 4 channels. The 2U/3U/4U rackmount enclosure hold 12/16/24 x SSD, SAS or SATA drives, and protects all data by RAID levels 0, 1, 3, 5, 6,10. With friendly Graphic User Interface, quick setup procedure would help the non-technical users to configure a basic storage setup in less than 5 steps. Moreover, the storage capacity can be scalable to 120 drives by connecting through a mini SAS expander to JBOD enclosure.

Nova 6G SAS series are the best storage solutions designed for mid and large business' data management, digital content creation & distribution and video surveillance applications. The high I/O performance and high capacity scalability, would allow managing highly redundancy and availability environment under 24 x 7 operation.

FEATURES HIGHLIGHT

Balanced Performance
High I/O bandwidth and SAS 6Gb host interface, the Nova SAS series are well suited for wide-ranging workloads.

Data Protection
Support RAID levels 1, 3, 5, and 6 to prevent for drive failure. Sustained read performance even in degrade mode.

High Scalability
Internal SAS expanders enable easy to connect up to 7 x SAS 6Gb JBOD enclosures without the need for additional RAID units.

Easy Configuration and Management
User-friendly, easy management interface with quick setup procedure help non-technical users to configure a RAID 5 or RAID 6, in few steps.

Central Monitoring
Support multiple platforms, central managed "RAIDGuard Central" monitoring S/W, reporting failure event via SNMP instantly.

Symmetric Active-Active Redundancy
The Nova series implement Symmetric active-active controller redundancy mechanism ease management of the IT environment and improve efficiency. Help to simplify configuration on VMware clustered environments by eliminating the need to select a preferred path. There is no additional path management utility needed to manage multiple paths and load balance for operating systems already embedded MPIO.

Embedded Snapshot
Block level snapshot embedded at the array F/W to leverage the computing power of the RAID system with less performance impact in comparing to host-based snapshot S/W. The restore function allowing users to restore data by rolling back the previous shot effectively.
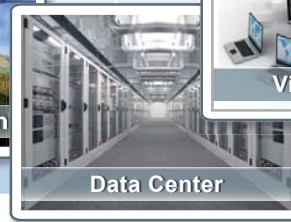
Remote Replication
Array based remote replication feature allowing data synchronization via embedded iSCSI ports, through area network or internet.

Nova Professional Series 6G SAS RAID Subsystem

3D Content Creation

Data Center

Virtualization

SPECIFICATION

Hardware Components

Model No.	Nova 26S	Nova 26R	Nova 36S	Nova 36R	Nova 46S	Nova 46R
RAID Controller	Single	Redundant	Single	Redundant	Single	Redundant
No. of Host Channels Per Controller	2 x 6Gb SAS	4 x 6Gb SAS	2 x 6Gb SAS	4 x 6Gb SAS	2 x 6Gb SAS	4 x 6Gb SAS
Expansion Enclosure	Nova 34S/44S	Nova 34R/44R	Nova 34S/44S	Nova 34R/44R	Nova 34S/44S	Nova 34R/44R
Cache Memory Per Controller	2GB, up to 4GB		2GB, up to 4GB		2GB, up to 4GB	
No. of Drives	12 (SAS/SATA) *		16 (SAS/SATA) *		24 (SAS/SATA) *	
Max. No. of Drives	120		120		120	
Power Supply	2 x 400W		2 x 500W		3 x 400W	
Fan	2		2		2	
Dimensions	2U 19" Rackmount 485 x 593 x 88mm (W x D x H)		3U 19" Rackmount 485 x 593 x 132mm (W x D x H)		4U 19" Rackmount 485 x 593 x 176mm (W x D x H)	

Feature Highlights

Green	- Auto disk Standby - Advanced cooling mechanism - 80 PLUS energy-efficient power supplies
Hybrid Controller	2 x 6Gb SAS + 2 x 1Gb iSCSI per controller, 1Gb iSCSI interface for remote replication
RAID & Volume	RAID level 0,1,3,5,6,10,30,50, 60, JBOD, NRAID Up to 1024 logical volumes Global and dedicated hot spare Write-through or write-back cache policy Online volume expansion Instant RAID volume availability Auto volume rebuilding
High Availability	Dual active-active (Symmetric) controller Online firmware upgrade Multi-path & load-balancing support
Advanced Data Protection	"MaxSure" for Self-Encryption Drives Array based snapshot Optional Remote Replication features Array Recovery Mechanism Online disk roaming "SmartCor." Function (DST, DS, DC)
Management	LCM; Serial console; SSH telnet; HTTP Web UI; Secured Web (HTTPS); S.E.S.
Notification	Email; SNMP trap; Browser pop-up windows; Syslog; Windows Messenger
OS Support	Windows; Linux; Mac
Virtualization	VMWare; Hyper-V; Citrix

Optional Components

Cache Guard Module	Battery Free (SuperCAP) Cache backup module
SATA board	6Gbs SATA drives support on Redundant controller SKU

Requirements

AC Input	100-240V (+/-10%), 47-63Hz
Operating Temp.	5℃ to 40℃ (41℉ to 104℉)
Relative Humidity	20% to 80% non-condensing

* Need Tray board for SATA drives on Redundant configuration.
* Specifications and product offerings may vary without notice.
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