

Nova iSCSI RAID Subsystem



High Performance, High Availability IP Storage Solution

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 and Enterprise and Data management environments.

The release of Nova iSCSI features with 1.2GHz IOP plus 10Gb iSCSI single x 4 or dual x 8 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 10G iSCSI series are the best IP SAN storage solutions designed for mid and large business' data management. The high I/O performance and high capacity scalability, would allow managing highly redundancy and availability environment under 24 x 7 operation, utilization the same infrastructure as existing network environment.

FEATURES HIGHLIGHT

IP Storage Deployment

High I/O bandwidth and 10Gb iSCSI interface help SMB leverage the existing IP network investment to setup high availability iSCSI SAN environment.

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.

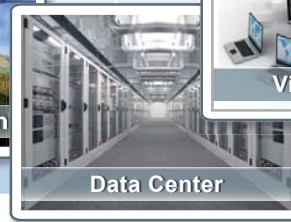
Remote Replication

Array based remote replication feature allowing data synchronization via embedded iSCSI ports, through area network or internet.

Nova Professional Series 10G iSCSI RAID Subsystem



3D Content Creation



Data Center



Virtualization

SPECIFICATION

Hardware Components

Model No.	Nova 22S	Nova 22R	Nova 32S	Nova 32R	Nova 42S	Nova 42R
RAID Controller	Single	Redundant	Single	Redundant	Single	Redundant
No. of Host Channels Per Controller	4x 10Gb iSCSI	8x 10Gb iSCSI	4x 10Gb iSCSI	8x 10Gb iSCSI	4x 10Gb iSCSI	8x 10Gb iSCSI
Host Connector	SFP+		SFP+		SFP+	
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	4 x 10Gb iSCSI + 2 x 1Gb iSCSI per controller, 1Gb iSCSI interface for remote replication		
iSCSI Function	- Link Aggregation, LACP (802.3ad) - Jumbo Frame support (9000bytes) - Challenge Handshake Authentication Protocol (CHAP)	- Multiple iSCSI targets (up to 8) - Internet Storage Name Service (iSNS) - Header Digest and Data Digest	
RAID & Volume	- RAID level 0, 1, 3, 5, 6,10, 30, 50, 60, JBOD, NRAID - Global and dedicated hot spare - Online volume expansion - Auto volume rebuilding	- Up to 1024 logical volumes - Write-through or write-back cache policy - Instant RAID volume availability	
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°C to 40°C (41°F to 104°F)
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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