

# ReadyStor™ NAS8650QC

**High Performance, High Reliability, High Capacity  
Network Attached Storage and iSCSI SAN**

Powered by Microsoft® Windows® Storage Server™ 2008 Standard Edition



## Product Overview

- 3U form factor for rack optimized environments
- Providing higher performance, improving data availability and simplifying system design
- Supports SAS disk drives for data intensive applications and SATA drives for low-cost bulk storage
- iSCSI Target ready for consolidation of storage
- Supports up to 16 HDD using universal SAS 3Gb or SATA II with hot swap
- Hardware RAID provide optimal storage performance and data availability
- Easy installation and configuration using Microsoft RDP Client or Direct attachment
- Multiple snapshots using Microsoft Shadow Copy Service ensures point-in-time data recovery
- OS pre-installed in SSD for fast startup and reliability
- 4 Gigabit Ethernet ports with Intel® I/OAT 3 provide fast, scalable, reliable networking and performance.



	Specifications for NAS8650QC
Operating System	Microsoft® Windows® Storage Server™ 2008 64bit standard edition
Network File System Protocols	SMB/CIFS, NFS, DFS, AppleTalk, HTTP & FTP
Management Interface	Remote Desktop
Management Protocols Support	SNMP, SMTP notification
Access Control	Active Directory Service, UNIX NIS
Number of HDDs	16
System Processor	Quad-Core Intel® Xeon E5506 (4MB L3 Cache, 2.13GHz, 4.8GT/Sec)
System RAM	6GB Standard, expandable to 96GB
CPU	1 (Upgradeable to 2)
HDD Interface	SATA 3Gbps and SAS 3Gbps
RIAD Type	Hardware RAID Controller with IOP348 at 1200MHz, 512MB Cache
RAID Level	0,1,3,5,6,10, 30, 50 and 60
Network Interface	4 x Gigabit Ethernet supports Intel® I/OAT 3
Form Factor	3U
Dimensions	437mm x 132mm x 648mm
Gross Weight	40Kg
Power Supply	Dual Redundant Hot swap 800W
AC Voltage	Auto ranging 100 to 240V @50/60Hz
Current	10-14Amp
Regulatory Agency Approvals	UL/CB/TUV/CCC/EN 60950/IEC 60950
Warranty	3 Years

**It's All Ready For Your Data**

Specifications subject to change without notice. ReadyStor™ is registered trademark of TAKNET Systems Pte Ltd. June-2010

## WHY WINDOWS STORAGE SERVER 2008?

The amount of data supported within the organization continues to grow every year. Regulatory requirements, archival demands and data availability push storage requirements to their limits. As the datacenter grows, so does power consumption, physical space requirements and the need for improved hardware to handle the massive volume of data. Administrators need more than just raw storage capacity, but to implement the storage techniques and strategies that help them prioritize data and provide a standard of service. Storage demands will continue to grow and a storage solution is needed that can grow with the demand. Windows Storage Server 2008 can enable your organization to optimize your datacenter storage requirements.

## WINDOWS STORAGE SERVER 2008

Microsoft Windows Storage Server 2008 is built upon an optimized release of the reliable and flexible file services of Windows Server 2008 for better file serving performance. Microsoft then adds advanced storage technologies such as file deduplication and an iSCSI software target for unified file- and block-based storage and packages it for delivery within storage appliances. Similarly, TAKNET then offer specialized hardware and introduce additional software components to create WSS08-based appliances. Windows-powered storage appliances give customers new storage capabilities, simplified deployment and easier management while assuring seamless synergy in their Windows infrastructure in a cost-effective and high-performance platform, and is delivered through us.



## Built upon Windows Server 2008

Microsoft Windows Storage Server 2008 (WSS08) provides file services that are built upon the reliable and flexible file services within Windows Server 2008. WSS 08 provides a solid mid-market to enterprise file serving solution with easy manageability and powerful file serving features on a mature base platform and using industry standard hardware. WSS08 is optimized from WS08 for performance in the file serving role, as well as by the hardware partner from basic server configurations - but maintains compatibility with other Windows management tools from Microsoft and third-party Windows solutions.

## ADVANCED STORAGE TECHNOLOGIES

Windows Storage Server 2008 extends the basic functionality of a file server providing advanced technologies including file & block storage with [iSCSI](#) and data deduplication capabilities with [SIS](#). These extended functionalities are designed to be easy-to-use and function transparently to the users of the organizations file infrastructure and require very little maintenance.

## SIMPLIFIED DEPLOYMENT & MANAGEMENT

Windows Storage Server 2008 is deployed in an appliance form-factor which means hardware and software requirements are pre-configured vastly simplifying the deployment tasks normally associated with a new file server. The appliance form-factor also greatly reduces the required amount of time to deploy removing many management tasks and minimizing the impact of deployment on the organizations file infrastructure.

### Single Instance Storage (SIS)

Among the additional storage-centric capabilities provided in Windows Storage Server (WSS) appliances over a traditional Windows Server is file deduplication through Single Instance Storage (SIS). SIS delivers built-in file deduplication to optimize storage capacity by actively comparing and eliminating identical files on file sharing volumes. Duplicate files are transparently replaced with file system links to the single copy retained in the SIS Common Store -- saving significant amounts of capacity. As a result, file serving performance is improved because more files can be cached by the operating system. In addition, protection and recovery by SIS-aware backup solutions can significantly reduce backup windows and recovery times.

### OPTIMIZES STORAGE CAPACITY

Single Instance Storage (SIS) provides data deduplication for Windows File Services. It can significantly impact the amount storage consumed within an organization. It's not uncommon to recover between 25-40% of existing disk space

once the file consolidation has completed. Easy-to-use tools and a transparent operation means the technology is relatively easy to use and requires very little maintenance.

**IMPROVES FILE SERVER PERFORMANCE**

SIS minimizes the amount of physical data allowing for quicker backups and recoveries. Loads from file caching and file accesses are reduced and everything operates without users even being aware that many of their files are centrally stored.