

## Tandberg Viking FS-1610 NAS

Where Smarter Storage Begins

VIKING



### The Smarter Choice for Disk-Based Storage

Backup windows are shrinking and rapid file restore is more important than ever. IT departments need storage solutions to meet the increasing demands of users who need to share files in heterogeneous environments.

The Tandberg Viking Series Network-Attached-Storage solutions are designed with this in mind to provide for storage expansion, speedy file access and convenient file sharing for high data availability, rapid recovery, data protection and easy data management.

Powered by Windows® Storage Server™ 2003 R2 (WSS 2003 R2) or Windows® Unified Data Storage Server™ 2003 (WUDSS 2003), optimized for storage-specific management and applications, the Tandberg Viking FS-1610 NAS ensures ease of deployment, flexibility and seamless integration to customers' network environments. Users familiar with the Windows environment will find it very easy to configure the Viking NAS. On top of that, they will not have to worry about the correct number of Client Access License to purchase as the WSS 2003 R2 come with unlimited Client Access License. All file sharing protocol are supported e.g. CIFS/SMB, NFS, AppleTalk, DFS, HTTP & FTP with File Server Resource Manager.

#### Ease of Deployment & Recovery

The Tandberg Viking FS-1610 NAS is relatively easy to deploy without drastic reconfigurations to the network for file-level or block-level\* access. It also offers quick-restore functionality via Recovery DVD image. It allows user to customize different RAID level for protecting the OS partition. In the event the Viking FS-1610 NAS needs to be restored, the Recovery DVD image brings the Viking FS-1610 NAS back to a factory default in minutes.

#### Easy Backup / Archiving Integration

The Viking FS-1610 NAS offers connectivity support for external tape unit or tape autoloader via its Ultra320 SCSI controller which allows direct connection to a tape device, autoloader or libraries. This makes it the perfect device to further enhance data protection and offline staging for restoration or archival. The Viking FS-1610 NAS can be implemented as a second tiered storage device, a backup server or a centralized file sharing device.

#### S-ATA II Hardware RAID Protection

Using the latest in Serial-ATA HDD technology, Serial-ATA II coupled with hardware RAID, the Viking FS-1610 NAS offers abundant networked storage capacity and performance, and at the same time ensure maximum data availability using enhanced dual-parity protection (RAID 6).

#### iSCSI Target

The Microsoft iSCSI Target snap-in is a software based iSCSI-SAN solution that provides centralized block level storage provisioning to remote application server or PC client. With a supported hardware or software iSCSI initiator, any remote server or client can connect to their allocated iSCSI volume(s) (using Virtual Disk Service) provided by the Viking hardware. Microsoft iSCSI target is available on Windows Unified Data Storage Server 2003.

### Reasons To Buy The Tandberg Viking FS-1610 NAS

- 3U form-factor for rack optimized environment
- Flexibility to choose between the Microsoft Windows Storage Server 2003 R2 or Microsoft Windows Unified Storage Server 2003 platform
- Support up to 16 HDD (or more by adding additional RAID enclosures) using Serial-ATA II connectivity
- Quick installation & configuration using Remote Desktop or Direct Attachment
- Using DVD image for OS recovery
- Multiple snapshots using Microsoft Shadow Copy Service ensures point-in-time of data recovery
- Hot-Swap Serial-ATA II HDD and hardware RAID provide optimal storage performance & data availability
- Ultra320 SCSI supports for the most demanding external tape device connection in backup & offline archiving operations
- Provide iSCSI-SAN solution (as target) for remote servers and clients using WUDSS 2003

\*Block level access is only available through the use of Microsoft iSCSI Target software in Windows Unified Data Storage Server 2003



Powered by *Microsoft Windows Storage Server 2003 R2 / Microsoft Windows Unified Data Storage Server 2003* for flexibility & seamless integration to LAN, providing file-level and block-level storage management features

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## Technical Specifications

Processor	Intel®E5405 Quad-Core Xeon 2.00GHz 12MB Cache (1333 MHz FSB)
Memory	2 GB standard, expandable to 16 GB (667/533 MHz DDR 2)
No. of CPU	1 (Upgradeable to 2)
<b>Storage</b>	
HDD Interface Technology	Serial-ATA II (Hot Swappable)
Number of HDD	16 (maximum 1.0TB capacity per HDD Bay or more by adding additional RAID enclosures)
Type of RAID	Hardware Serial-ATA II RAID
RAID level support	RAID 0, 1, 0+1, 3, 5 or 6
<b>Interfaces</b>	
LAN	2 x Auto Sensing Gigabit NICs embedded 10/100/1000 Mbps (RJ45)
SCSI	Dual Channel Ultra320 SCSI LVD/SE
USB	2 x USB 2.0 port
RS232	1 x Serial Port
<b>Expansion Slot</b>	
PCI-Express	1 (x8) PCI-e slot , 1 (x4) PCI-e (using x8) slot
PCI-X	2 x 64bit 100MHz PCI-x (3.3V) slots
PCI	1 x 32bit 33MHz PCI (3.3V) slots
<b>Warranty</b>	
Term	3 years
<b>Dimensions / Weight</b>	
Form factor	3U
Dimensions	H: 5.2" (132mm) x W: 17.2" (437mm) x D: 25.6" (650mm)
Weight	72 lbs (32.7 kg)
<b>Electrical Rating</b>	
Type	Dual-Redundant PSU (Hot Swappable)
Rated Voltage	Auto ranging 100 to 240 VAC @ 50/60 Hz
Rated Current	10 - 14 Amp
Power Consumption	800 W
<b>Environmental Specifications</b>	
Temperature	10°C to 35°C
Relative Humidity	8% - 90% non-condensing
Regulatory Agency Approvals	UL/CB/TUV/CCC/EN 60950/IEC 60950
<b>Operating System</b>	
NAS Operating system	Microsoft® Windows ®Storage Server™ 2003 R2 / Microsoft® Windows®Unified Data Storage Server™ 2003
Network File System Protocol	SMB/CIFS, NFS, DFS, Appletalk, HTTP & FTP
Management Interface	Remote Desktop
Management Protocol Support	SNMP, SMTP notification
Environmental Monitoring	Fan, temperature & UPS
Access Control	Active Directory Service, UNIX NIS
Snapshot Technology	Microsoft Volume Shadow Copy Service (VSS)
Backup Software	Windows Backup (or optional 3rd party that supports WSS 2003 R2)
Anti-virus	Optional 3rd party that supports WSS 2003
NAS OS Recovery	DVD Image

For more information, kindly contact your Tandberg Data sales representative or authorised distributor, or visit [www.tandberg.com.sg](http://www.tandberg.com.sg)

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