



**VIKING**

## Tandberg Viking FS-412 NAS



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### What Is NAS?

NAS is an acronym for **Network Attached Storage**. NAS solutions are specialized file-serving devices that support heterogeneous files in a high capacity storage solution on Ethernet based networks. NAS solutions also provide specific features to simplify the tasks and reduce the resources associated with data storage and management. The objective of NAS technology is to simplify manageability and improve data access to clients and applications. A NAS solution will generally provide network accessible storage to a mix of clients and servers running different operating systems.

### Microsoft® Windows® Integration

Powered by Windows® Storage Server™ (WSS 2003) operating system and optimized for storage-specific management and applications, the Tandberg Viking FS-412 NAS ensures ease of deployment, flexibility and seamless integration to customers' network environments. The hardware is also preconfigured and optimized to allow the Viking FS-412 NAS to be up and running in minutes.

### Heterogeneous OS Support

In a typical workgroup environment, the Tandberg Viking FS-412 NAS serves as the file storage device hosting local user files for sharing and exchanging between Windows, Mac and UNIX/Linux clients.

### Small Foot-Print

The Viking FS-412 NAS comes in a 1U form factor which provides a great solution that minimizes space requirements. This also means that more Viking FS-412 NAS units can be consolidated in a single rack system and thus providing customers with cost saving in denser datacenter environment.

### Special Functions

- 1U form-factor for rack optimized environment
- Powered by Microsoft Windows Storage Server 2003 for flexibility & seamless integration to LAN
- High capacity for storage: up to 4 HDD using Serial-ATA II connectivity
- Quick installation & configuration using Web User Interface and Remote Desktop
- 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
- Supports SMB/CIFS, NFS, DFS, Appletalk, HTTP & FTP file-systems for heterogeneous client sharing

### S-ATA II Hardware RAID Protection

Using the latest in Serial-ATA HDD technology, Serial-ATA II coupled with hardware RAID, the Viking FS-412 NAS offers abundant networked storage capacity and performance, and at the same time ensures data availability.

### Ultra320 SCSI Connectivity

The Viking FS-412 NAS offers connectivity support for external tape unit or tape autoloader via its VHDCI Ultra320 SCSI controller. This allows maximum bandwidth for SCSI attached tape unit and further enhances data protection and offline staging for restoration or archival needs.

### Ease of Setup & Recovery using DVD Image

The Tandberg Viking FS-412 NAS 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-412 NAS needs to be restored, the Recovery DVD image brings the Viking FS-412 NAS back to a factory default in minutes.

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Securing your Information

# Tandberg Viking FS-412 NAS

## Technical Specifications

<b>Hardware</b>	
Processor	Intel® Pentium® IV 3.0 GHz with Hyper-Threading Technology
Memory	1 GB standard, expandable to 4 GB (DDR 533)
<b>Storage</b>	
HDD Interface Technology	Serial-ATA II (Hot Swappable)
Number of HDD	4 (maximum 500 GB capacity per HDD)
Type of RAID	Hardware Serial-ATA II RAID (300MB/s)
RAID level support	RAID 0, 1 + 0, 3 or 5
<b>External Interfaces / Expansion</b>	
LAN	2 x Auto Sensing Gigabit NICs embedded 10/100/1000 Mbps (RJ45)
SCSI	VHDCI 68 pin Ultra320 SCSI LVD/SE
USB	4 x USB 2.0 port
RS232	2 x Serial COM
<b>Warranty</b>	
Term	3 years
<b>Dimensions / Weight</b>	
Form factor	1 Rack U
Dimensions	Width: 438 mm (17.2 in) Height: 43 mm (1.7 in) Length: 504 mm (19.8 in)
Weight	15.6 kg or 34.5 lb
<b>Electrical Rating</b>	
Rated Voltage	Auto ranging 100 to 240 VAC @ 50/60 Hz
Rated Current	5 Amp
Power Consumption	300 W
<b>Environmental Specifications</b>	
Temperature	10°C to 35°C
Relative Humidity	20% - 80% non-condensing
Regulatory Agency Approvals	FCC Class B/CE/VCCI/MIC/UL/CB/TUV/TUV-S
<b>Operating System</b>	
NAS Operating system	Microsoft® Windows® Storage Server™ 2003
OS & Data Partition / Volume	User Definable (RAID 0, 0 + 1, 3 or 5)
Network File System Protocol	SMB/CIFS, NFS, Appletalk, HTTP & FTP
Management Interface	WebUI / 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)
Anti-virus	Optional 3rd party that supports WSS 2003
Replication	Optional 3rd party that supports WSS 2003
NAS OS Recovery	DVD Image
<b>Others</b>	
DVD Drive	Built-in, 8x
<b>Tandberg Viking FS-412 NAS Configuration</b>	
FS-412 NAS Appliance Unit	✓
Front bezel	✓
HDD / Tray	4
Rackmount Kit	✓
Power Cable	✓
Locking Keys	✓
Documentation / Recovery CD ROM	✓

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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