

### High Performance 1U NAS Powered by Windows



TeraStation Pro Rackmount WSS provides high performance four hard drives RAID based network storage in 1U Rackmount form factor. Powered by Intel Atom D510 dual-core processor with 2GB memory, TeraStation Pro Rackmount WSS provides class-leading performance, enabling faster read/write performance and concurrent access from multiple computers. TeraStation Pro Rackmount WSS, powered by Windows Storage Server 2008 R2 Standard Edition, provides seamless capability with windows computers and servers. Active Directory support provides easy integration and user/group management in larger Windows network. Replication synchronizes files and folders between two TeraStation to protect important data. As disaster recovery, DFS Replication even allows data synchronization of TeraStations in remote locations via Internet. SIS, Single Instance Storage, avoid overlap of identical file and save capacity usage when duplicating a file.



### High Capacity 1U NAS

Up to 8 TB with built-in Data Deduplication

#### High Speed NAS (Read)

TeraStation WSS\* 108 MB/s

TeraStation ||| 69 MB/s

TeraStation ES 49 MB/s

\*Simultaneous transfer from 3 PCs. Performance is estimated.

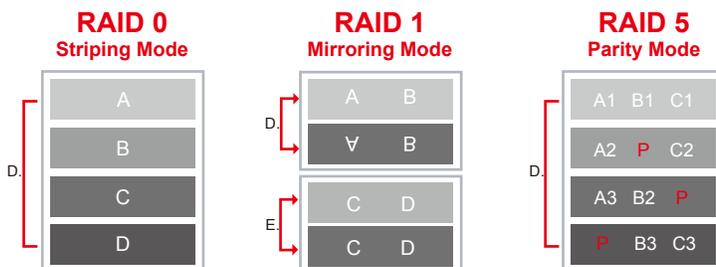
PC: Dell Vostro 200 | CPU: Intel Core2Duo E6750 (2.66GHz)  
Mem: 3 GB | NIC: Intel PRO1000/PT  
OS: Windows XP Professional Service Pack 2  
Software: Iometer | RAID 5, Sequential read (RAID 1 for TeraStation Pro Duo)

\*TeraStation Pro WSS units tested include TeraStation Pro Duo WSS (RAID 1), TeraStation Pro Quad WSS (RAID 5), TeraStation Pro Rackmount WSS (RAID 5), and TeraStation Pro 6 WSS (RAID 5)

### Features and Benefits

- Windows Storage Server 2008 R2 Standard Edition - Incorporates the powerful Intel® Atom™ D510 Dual-Core Processor / 2GB RAM
- Four front loading hot swap hard drives with lockable front panel
- Cartridge mounted hot swap hard drives behind the front panel for easy drive access and replacement
- Active Directory support
- Disk quota (soft quota) support prevents users/groups from consuming too much disk space
- DFS (Distributed File System), Namespace & Replication support
- Supports unlimited concurrent transfer connections
- Data Deduplication Support (Windows Single-Instance-Storage)
- Read-only Domain Controller Support (RoDC)
- 1U rack mountable, mounting rails included
- Improved CPU speed enables faster data transfer
- 1000/100/10 Gigabit Ethernet with Jumbo Frame
- Two Ethernet ports support accesses from different network segment
- iSCSI Target and Initiator
- Works as a storage in Hyper-V (SAN storage for Virtual Machines) environment
- Supported RAID levels: 0, 1, 5, Simple disk (Individual Disks), Span
- Large silent fan and advanced ventilation design cool down hard drives and other components efficiently
- LCD Display shows important TeraStation information and disk status
- Windows Server 2008 Server Manager Utility for easy deployment and configuration
- 2 USB 3.0 ports and 3 USB 2.0 ports for external drive, printer and UPS connectivity
- 10 licenses of NovaBACKUP® Business Essentials v12 Included: Back up 10 Windows PCs, Windows Servers, Exchange or MS SQL databases
- 3-Year Limited Warranty

### RAID Support for Maximum Flexibility and Reliability



### NovaBACKUP® Business Essentials



**Comprehensive Backup Solution for up to 10 PCs, Servers or SQL databases**



## WS-RV8.0TL/R5(8TB), WS-RV4.0TL/R5(4TB)

### SPECIFICATIONS

#### Hardware Specification

OS Windows Storage Server 2008 R2 Standard Edition  
 Processor Intel Atom D510 1.66GHz (Dual Core)  
 Memory DDR2-800 2GB

#### Ethernet Port

Interface IEEE802.3ab / IEEE802.3u / IEEE802.3  
 (1000BASE-T / 100BASE-TX / 10BASE-T)  
 Data Transfer Rate 1000Mbps full-duplex  
 100Mbps half-duplex/full-duplex  
 10Mbps half-duplex/full-duplex  
 Number of Ports 2 ports (AUTO-MDIX)  
 Connector Type RJ-45 8pin  
 Transmission Distance 100m  
 Protocol TCP, UDP  
 Network File Protocol SMB/CIFS  
 FTP  
 NFS

#### USB Port (\* It cannot be used to connect to a computer)

Interface USB 3.0/2.0/1.1 interface  
 Number of Ports USB 3.0: 2 ports (Type A),  
 USB 2.0/1.1: 3 ports (Type A)

#### UPS Port

Interface UPS port (D-sub 9pin (Male)) x 1 port

#### Display Port

Interface Analog RGB (D-Sub 15pin) x 1 port

#### LCD

Backlight Color Normal operation: Blue  
 Error: Red  
 Contents [OS], [Host name/IP address], [Clock], [HDD usage]  
 [Link Speed], Error Message,  
 and Information Message

#### Internal HDD (SATA II)

Interface SerialATA II (rev. 2.0)  
 Number of Ports 4 ports (4HDDs are installed)  
 Data Transfer Rate Max 3.0Gbps (Theoretical)

#### Fan

Specification 40mm x 40mm double ball bearing fan x 2

#### Size/Weight

Form Factor 1U  
 Rack Support 19-inch TIA/EIA-310-D compatible rack  
 Size W430 x H44.3 x D420mm  
 Weight 9.0kg

Package Size W533 x H180 x D478mm  
 Package Weight 12.0kg  
 Adjustable range of rack mounting brackets Min: 470mm, Max: 760mm

#### Attachments

Power Cable 1.8m  
 Ethernet Cable 2m category5e straight cable  
 Key Front panel key x 2  
 Warranty Statement  
 Utility Media(USB Memory) Tera Navigator, NAS Navigator2  
 NovaBACKUP Business Essentials  
 TurboPC, Turbo Copy, Setup Guide, Adobe Reader

#### Others

Power Input AC100-240V 50/60Hz  
 Power Consumption Avg: 110W, Max: 140W  
 VA Avg: 113VA, Max: 145VA  
 Heat Generation Avg: 396kJ/h, Max: 504kJ/h  
 Operation Condition Temperature: 5-35°C,  
 Humidity: 20-80% (non condensing)  
 Standards VCCI Class A, RoHS  
 Warranty Period 3 years

#### OS Support

Machine Windows computer with Ethernet interface  
 Apple Mac series  
 \*Connect to a computer via Ethernet  
 Client OS Support [TeraStation]  
 Windows 7 (32bit/64bit) / Vista (32bit/64bit) /  
 XP (32bit/64bit)\* / 2000  
 Windows Server 2008 R2 (32bit/64bit) /  
 2008 (32bit/64bit)  
 Windows Server 2003 R2 (32bit/64bit) /  
 2003 (32bit/64bit)  
 Windows 2000 Server  
 MacOS X 10.3.9 or later  
 \*: Including MCE2005 / MCE2004

#### Software OS Support

	Windows								Mac OS
	7	Vista	XP*	2000	Server 2008 R2 /2008	Server 2003 R2 /2003	2000 Server	X 10.3.9 or later	
	32bit /64bit	32bit /64bit	32bit /64bit		32bit /64bit	32bit /64bit		10.4 10.5 10.6	
NAS Navigator2	✓/✓	✓/✓	✓/✓	✓	✓	✓	✓	✓	
NovaBACKUP Business Essentials	✓/✓	✓/✓	✓	-	✓	✓	-	-	
Turbo PC	✓/✓	✓/✓	✓	✓	-	-	-	-	
Turbo Copy	✓/✓	✓/✓	✓	✓	-	-	-	-	

✓ : supported, - : not supported

\* 5 Gbps is the maximum transfer rate derived from the specifications of the Universal Serial Bus 3.0 and the ExpressCard. Actual transfer rate will vary depending upon environmental factors. Data rate, features and performance may vary based on the configuration of your system and other factors.

1 TB= 1,000,000,000,000 Bytes. Actual data throughput and range will vary depending upon network conditions and environmental factors, including volume of network traffic, building materials and construction, and network overhead.

## About BUFFALO Inc.

[www.buffalo-asia.com](http://www.buffalo-asia.com)

BUFFALO Inc., based in Nagoya, Japan, is a leading global provider of award-winning networking, storage and multi-media solutions for the home and small business environments as well as for system builders and integrators. With three decades of networking and computer peripheral experience, BUFFALO has proven its commitment to delivering innovative, best-of-breed solutions that have put the company at the forefront of infrastructure technology.