NETGEAR®

ReadyDATA 516 – Unified Network Storage

Datacenter-class Storage Designed for the Desktop

NETGEAR's ReadyDATA is a unified storage (NAS/SAN) platform featuring ZFS-based storage technology designed for businesses of any size. With unlimited snapshots, block-level replication and native deduplication, ReadyDATA frees enterprise data protection, disaster recovery and data integrity technologies from the tyranny of "Big IT" vendors.

With the 6-bay desktop ReadyDATA 516, NETGEAR has liberated enterprise storage features from the datacenter, providing customers with the most affordable block-based replication solution for centralized backup of branch office environments.

For any organization looking to deploy enterprise-class storage and data management tools without the high cost and unnecessary complexity that come with "Big IT" investments, ReadyDATA has a solution that is easily tailored to required specifications. With a desktop option for smaller businesses, a rackmount option for datacenter operations and the capability to mix form factors for a true edge-to-core solutions or as a managed service offering for IT resellers, the possibilities are endless.

Key Business Features

- **Unlimited Snapshots:** Unlimited data snapshot capability for on-box protection (first backup tier) and flexible data recovery enable true continuous data protection

- **Instant Volume Creation and Expansion:** Provision and expand storage instantaneously with data protection from the first moment. Copy-on-write ensures data integrity at all times

- **Locally or Cloud-managed, Block-based Replication:** Maintain data sets in multiple locations or ensure protection of data from remote or branch office locations. Central and simple to manage via the ReadyDATA Replicate Web-portal
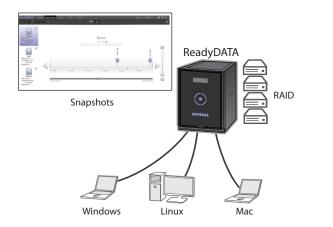
- **Deduplication and Compression:** Deduplicating data on block level optimizes storage utilization and saves disk space

- **Simple iSCSI LUN Management with Thin Provisioning:** Powerful tools for virtual infrastructures and server applications

- **Peak Performance:** Intel Core i3 Ivy Bridge 3.3GHz Processor and 16 GB RAM as well as the option to add SSD-drives to SATA drives as an additional cache

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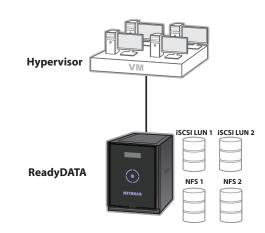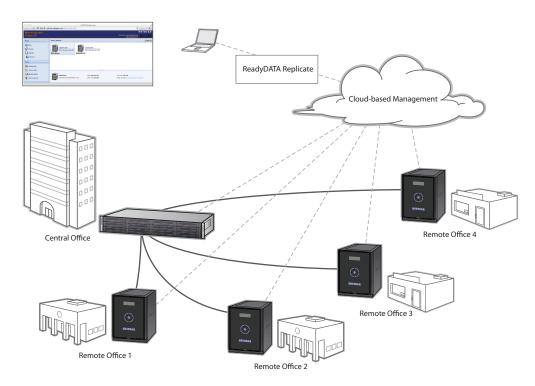
Key Business Solutions

Backup: Unlimited, pointer-based snapshots give you complete control over the past, present, and future of your data, be it file or block data for server applications and virtualization.

File Server: Supporting CIFS/SMB, NFS and AFP, ReadyDATA 516 supports all relevant protocols in a NAS environment. The combination with its unlimited snapshot capability makes it an ideal solution for advanced file serving requirements.

Shared Storage for Virtualization and Server Applications: Block-based operations in combination with ReadyDATA's peak performance provide the perfect foundation for small virtual environments and block-based applications.

Edge-to-core Data Protection: Without the extra expense of backup software, ReadyDATA 516 offers the most cost-efficient edge-to-core data protection solution for both file and block data in distributed environments. ReadyDATA 516's centrally managed backup and restore capabilities (unlimited snapshots) in combination with the replication functionality efficiently protect data from both disasters as well as human error of any kind.

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ReadyDATA 516 – Unified Network Storage

ReadyDATA 516 Hardware Overview

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Processor	Intel Core i3 Ivy Bridge 3.3GHz Processor
Memory	16 GB ECC Memory
Drive Bays	6 Bay, Desktop
Drive Types Supported	3.5" SATA/SSD, SSD Caching
Hot Swappable Drives	Yes
Tool-less 3.5" Disk Installation	Yes
Total Solution Capacity	24TB
Gigabit LAN Ports	2
USB Ports	1 USB 2.0, 2 USB 3.0, 3 eSATA Ports
Power Supply	1 x 200W AC power supply internal
Input	100 – 240V AC, 50/60 Hz
BTU at Full Power Supply Utilization	189W
2-Line LCD Display	Yes
Touch Screen Navigation	Yes
Fan (mm)	120, dual ball bearing
Dimensions DxWxH (mm)	287.5 x 192 x 259
Weight	7.97 kg (17.55 lb) without disks
Available SKUs	
Description	**SKU**
ReadyDATA 516 Desktop Chassis	RDD516-100
ReadyDATA 500 Disk Pack with 1 x 2TB SATA (LFF) HDD	RDD1LT02-10000S
ReadyDATA 500 Disk Pack with 1 x 3TB SATA (LFF) HDD	RDD1LT03-10000S
ReadyDATA 500 Disk Pack with 1 x 4TB SATA (LFF) HDD	RDD1LT04-10000S
ReadyDATA 500 Disk Pack with 1 x 100GB MLC SSD	RDD1SM01-10000S
ProSUPPORT Service Packs Available (Priority Phone Number 24x7)	PMB0313 OnCall 24x7, (1 Year)
	PMB0333 OnCall 24x7, (3 Years)
	PMB0353 OnCall 24x7, (5 Years)
	PRR0323-10000S – Extended Next Business Day Replacement
	PSB 0304-10000S – Professional Setup and Configuration (Remote)
	PSP 1104-10000S – Professional Setup and Configuration (Onsite)

Technical Specifications

Data Protection (Backup & Replication)
- Hourly, Daily, Weekly scheduled block-based snapshots for Continuous Data Protection
- Restore Snapshots to any point in time
- Scheduled and manual snapshots
- Encrypted Remote Replication
- Cloud managed Remote Replication (ReadyDATA to ReadyDATA). No licenses required. Scheduled or continuous, including snapshot replication
- Client backup target using CIFS, NFS, FTP or iSCSI
- Supports Backup applications from Acronis, Quest, StorageCraft, Symantec, VEEAM
- RAID Levels: 0, 1, 5, 6, 10, 50, 60
- RAID Global Hot Spare

Storage Area Networks (SAN), Virtualization
- Unlimited snapshots
- Thin provisioning
- SPC-3 Persistent Reservation (iSCSI)
- MPIO (iSCSI)
- MC/S (iSCSI)
- VMware vSphere 5
- Citrix XenServer 6
- Windows Server 2008 Hyper-V
- Windows Server 2008 Failover Clustering
- Windows Server 2012

Hardware
- Intel Ivy Bridge Core i3-3220 3.3GHz dual core
- 16GB ECC RAM
- Dual Gigabit Ethernet ports with link aggregation and failover
- LEDs: Power, Activity, Disk, Backup, LAN
- Power cord localized to country of sale
- Touch wheel navigation for boot menu

Advanced Data Management for Shares and LUNs
- Multiple volume support for RAID 0, 1, 5, 6, 10, 50, 60
- Instant Provisioning / Instant expansion
- Hot swappable disks
- Hot spare disk support
- SSD performance boost
- Continuous Data Protection with Unlimited Snapshots
- Compression and De-duplication
- Thick and Thin Provisioning

File System & Transfer Protocols
- NETGEAR ReadyDATA OS 1.x using ZFS
- Copy-on-write filesystem with end-to-end data integrity
- SMB v1/v2 for Windows
- AFP 3.3 for Mac OS 9/X
- NFS v2/v3 for Linux and UNIX
- HTTP/S for web browsers
- FTP/S
- SNMP
- iSCSI target support for Windows, Mac and UNIX/Linux initiators
- Secure Shell (SSH)

Users/Groups
- Folder Level ACL Support
- Advanced Folder Permissions with Subfolder ACL support for CIFS/SMB, AFP, FTP
- Local users and Active Directory/Windows Domain support
- CHAP authentication for iSCSI LUN Shares
- Domain user login via CIFS/SMB, AFP, FTP

Management
- RAIDar local discovery agent (Windows/Mac)
- Performance tuning options
- Local Graphical User Interface (GUI) Languages: English, German, French, Chinese, Japanese, Swedish, Russian, Portuguese, and Spanish
- File Names: Unicode
- Volume Management
- Thin provisioned LUNs
- Instant Provisioning/Expansion with data protection
- Supported Operating Systems (Microsoft Windows Vista (32/64-bit), 7 (32/64-bit), 8 (32/64-bit), Microsoft Windows Server 2008 R2/2012, Apple OS X, Linux/Unix, Solaris, Apple iOS, Google Android)
- Supported Web Browsers (Microsoft Internet Explorer 9, Mozilla Firefox 14+, Google Chrome 18+, Apple Safari 2+)

System Monitoring
- Device performance and capacity utilization reports
- Resource and health monitoring
- Disk Scrubbing
- Email alerts and event logs
- SNMP

Networking Protocols
- TCP/IP
- IPv4 / IPv6
- DHCP or Static IP Address Assignment
- Link Aggregation IEEE 802.3ad/LACP
  - Hash Types IEEE 802.3ad LACP or XOR (Layer 2, Layer 3, Layer 4)
- LACP support for load balancing and failover
- Virtual Network Interface Card (vNIC)
  1. VLAN Access
  2. IP Settings
  3. Performance throttling
- Jumbo Frames
- Virtual LAN (VLAN)
- SSH
- SNMP v2, v3
- Network Time Protocol (NTP)

Compliance
- ENGR 10049 EST Environmental Stress Test Guideline
- ENGR 10045 EVT Engineering Validation Test Guideline
- ENGR 10048 CVT Compliance Validation Test Guideline
- ENGR 10046 SVT System Validation Test Test Guideline
- ENGR 10023 HALT Highly Accelerated Life Test Guideline
- ENGR 10036 CDG Component Derating Test Guideline

Environment
- Noise levels: <28dBA
- Operating Temperature: 0°-40° C
- Operating Humidity: 5-95% relative humidity, non-condensing
- UPS Support
- Network UPS with SNMP Management
- Wake on LAN
- AC Input Power Voltage 100V to 240V
- Power Frequency: 50Hz to 60Hz, Single Phase
- Certification: FCC Class B, CE Class B, RoHS, VCCI Class B

5-YEAR Next Business Day **INDUSTRY-LEADING 5-YEAR HARDWARE WARRANTY**
5-year next-business-day replacement,
90 day 24x7 phone support, lifetime chat support **LIFETIME** Tech Support

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