

ReadyNAS® OS 6

Desktop & Rackmount Performance

READYNAS® OS 6 DESKTOP & RACKMOUNT PERFORMANCE

Application data, virtual images, client files, email—the types of data central to running a successful business can seem endless. With ReadyNAS you finally have an advanced and easy-to-use solution for centralizing, securing and controlling access to your digital assets. Way more than just simple unified (NAS and SAN) storage for your company, ReadyNAS allows you to do more than you ever thought you could afford by pairing the latest in performance with innovative efficiency technologies such as unlimited snapshots, thin provisioning and cloud-managed replication.

Every networked attached storage (NAS) device from NETGEAR® runs on the revolutionary ReadyNAS Operating System. This custom-built OS protects stored data not only with automatic RAID configuration, but is the first of its kind to feature the continuous data protection of unlimited snapshots along with real-time anti-virus and native encryption. Designed with ease-of-use in mind, ReadyNAS devices utilize proprietary ReadyCLOUD™ technology for cloud-based discovery, provisioning and even ongoing management.

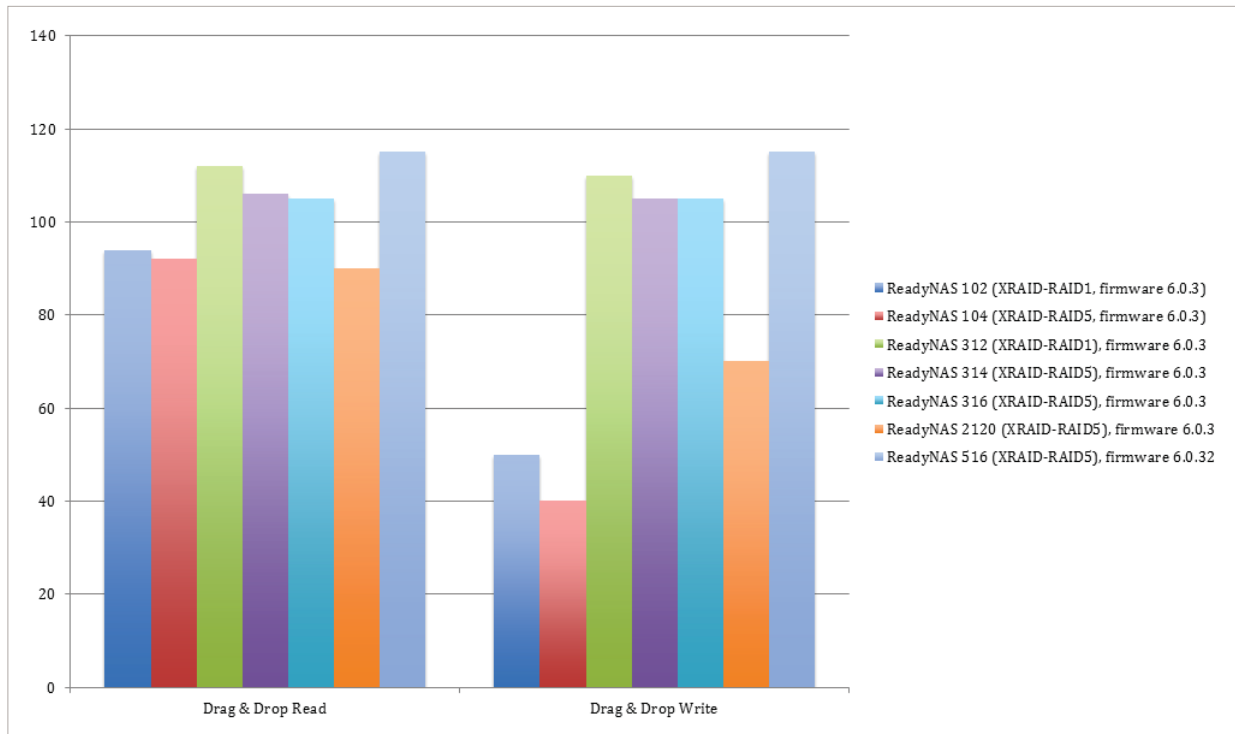
ReadyNAS support SATA (up to 4TB/bay) and SSD drives; all models include an eSATA expansion port for scaling capacity as the storage needs of your company grow (up to 84TB on the 516). Compatible with all leading backup software providers, and with real-time anti-virus protection ReadyNAS users enjoy the confidence of knowing data is secure from virtually any threat. In addition, ReadyNAS also features simple remote access to files from any web-enabled device.

These days, your data is your world. With ReadyNAS, protecting and accessing that world has never been easier. ReadyNAS – Storage Made EASY.

CONTINUOUS DATA PROTECTION

NETGEAR has made a revolutionary advancement in data protection with ReadyNAS OS 6. The features below are enabled by default.

- **Snapshots** (Continuous Data Protection). Metadata/pointer based snapshot do not require additional capacity. Restore to any point in time. Native support for Windows ShadowCopy allows for right click and view 'Previous Versions'.
- **SMB3 support on ReadyNAS 300 and 500 Series products.** SMB3 support will be available on ReadyNAS 100 Series products in a future release.
- **Metadata checksumming enabled by default on ReadyNAS 100 Series.** Metadata is also mirrored for additional protection. Provides a more robust data integrity solution versus ext3/ext4 based storage solutions.
- **Full data checksumming on writes for ReadyNAS 300 and 500.** Provides high level of data integrity during writes. This feature is available on ReadyNAS 100, but not turned on by default.



ReadyNAS OS 6 Performance Overview

READYNAS 100 SERIES PERFORMANCE (MB/SEC)

The ReadyNAS 100 Series provides all the additional data protection with snapshots and data integrity with metadata checksums and mirroring at the same performance levels of our previous products. There are no competitive products in the market that can provide this level of data protection.

READYNAS 300/500/2120 SERIES PERFORMANCE (MB/SEC)

ReadyNAS 300 Series provides additional data protection with snapshots and the ability to do self-service restorations plus additional data integrity (even more than 100 series with full data checksums). There are no competitive products in the market that can provide this level of data protection. Top it all off, the performance level of the new ReadyNAS 300/500/2120 Series is better than the previous respective generation.

READYNAS OS 6 NAS PERFORMANCE TOOLKIT BENCHMARKS

Besides raw data throughput rates, we are also providing the Intel NAS Performance Toolkit (NASPT) benchmarks scores. The test suite tries to emulate different use cases. Please note these are benchmark scores and actual performance will vary.

READYNAS 100-300-500 SERIES NASPT ¹ BENCHMARKS (MB/SEC)							
	ReadyNAS 102	ReadyNAS 104	RN312	RN314	RN316	RN2120	ReadyNAS 516
Firmware	6.0.3	6.0.3	6.0.3	6.0.3	6.0.3	6.0.3	6.0.3
RAID	RAID1	RAID5	RAID1	RAID5	RAID5	RAID5	RAID5
HD Video Playback	81	77	99	96	93	82	106
2x HD Playback	90	84	113	109	104	90	115
4x HD Playback	94	89	111	110	105	97	116
HD Video Record	78	63	132	124	123	102	149
HD Playback and Record	67	59	103	95	98	76	108
Content Creation	8	6	8	9	7	10	13
Office Productivity	33	33	35	37	36	36	38
File Copy to NAS	77	64	138	128	127	106	153
File Copy from NAS	73	69	83	83	79	73	93
Dir Copy to NAS	3	3	6	6	6	4	17
DIR Copy from NAS	7	9	9	15	12	11	20
Photo Album	10	10	10	10	10	11	14

¹ More information available at http://www.intel.com/products/server/storage/NAS_Perf_Toolkit.htm

Disclaimer:

All results are provided for reference and actual performance will vary. Results based on firmware revisions listed.