



N12000 / N16000

HDD Compatibility List

Enterprise:	(note 2)
Environment:	Business critical
Availability:	24/7
Reliability:	High

Seagate

Series	Model	Interface	Capacity (GB)	Rotational Speed (RPM)	Buffer Size (MB)	Recently Updated *
Cheetah 15K.6	ST3450856SS	SAS 3.0Gb/s	450	15000	16	* OK 2011/01/27
Cheetah 15K.6	ST3300656SS	SAS 3.0Gb/s	300	15000	16	* OK 2011/01/27
Cheetah 15K.6	ST3146356SS	SAS 3.0Gb/s	146	15000	16	* OK 2011/01/27

Western Digital

Series	Model	Interface	Capacity (GB)	Rotational Speed (RPM)	Buffer Size (MB)	Recently Updated *
WD VelociRaptor	WD6000HLHX	SATA 6.0Gb/s	600	10000	32	* OK 2011/01/27
WD VelociRaptor	WD4500HLHX	SATA 6.0Gb/s	450	10000	32	* OK 2011/01/27
WD Raptor	WD1500ADFD	SATA 1.5Gb/s	150	10000	16	* OK 2011/01/27
WD Raptor	WD740ADFD	SATA 1.5Gb/s	74	10000	16	* OK 2011/01/27
WD Raptor	WD360ADFD	SATA 1.5Gb/s	36	10000	16	* OK 2011/01/27

Consumer:	(note 2)
Environment:	Small office / Home
Availability:	8 Hours / day
Reliability:	Moderate

Hitachi

Series	Model	Interface	Capacity (GB)	Rotational Speed (RPM)	Buffer Size (MB)	Recently Updated *
Deskstar 7K3000	HDS723030ALA640	SATA 6.0Gb/s	3000	7200	64	* OK 2011/01/27
Deskstar 7K3000	HDS723020BLA642	SATA 6.0Gb/s	2000	7200	64	* OK 2011/01/27
Deskstar 7K3000	HDS723015BLA642	SATA 6.0Gb/s	1500	7200	64	* OK 2011/01/27
Deskstar 7K1000.C	HDS721010CLA332	SATA 3.0Gb/s	1000	7200	32	* OK 2011/01/27
Deskstar 7K1000.C	HDS721075CLA332	SATA 3.0Gb/s	750	7200	32	* OK 2011/01/27
Deskstar 7K1000.C	HDS721064CLA332	SATA 3.0Gb/s	640	7200	32	* OK 2011/01/27
Deskstar 7K1000.C	HDS721050CLA362	SATA 3.0Gb/s	500	7200	16	* OK 2011/01/27
Deskstar 7K1000.C	HDS721032CLA362	SATA 3.0Gb/s	320	7200	16	* OK 2011/01/27
Deskstar 7K1000.C	HDS721025CLA382	SATA 3.0Gb/s	250	7200	8	* OK 2011/01/27
Deskstar 7K1000.C	HDS721016CLA382	SATA 3.0Gb/s	160	7200	8	* OK 2011/01/27

Seagate

Series	Model	Interface	Capacity (GB)	Rotational Speed (RPM)	Buffer Size (MB)	Recently Updated *
Barracuda 7200.12	ST31000528AS	SATA 3.0Gb/s	1000	7200	32	* OK 2011/01/27
Barracuda 7200.12	ST3750528AS	SATA 3.0Gb/s	750	7200	32	* OK 2011/01/27

2011/1/27



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Barracuda 7200.12	ST3500418AS	SATA 3.0Gb/s	500	7200	16	* OK 2011/01/27
Barracuda 7200.12	ST3500410AS	SATA 3.0Gb/s	500	7200	16	* OK 2011/01/27
Barracuda 7200.12	ST3320418AS	SATA 3.0Gb/s	320	7200	16	* OK 2011/01/27
Barracuda 7200.12	ST3250318AS	SATA 3.0Gb/s	250	7200	8	* OK 2011/01/27
Barracuda 7200.12	ST3160318AS	SATA 3.0Gb/s	160	7200	8	* OK 2011/01/27

Notes:

1. It's recommended to have the newest available firmware installed on the NAS
2. For business critical environments, we HIGHLY RECOMMEND using enterprise HDD's, for detail information:
 - [Enterprise versus Desktop HDD's \(Intel\)](#)
 - ftp://download.intel.com/support/motherboards/server/sb/enterprise_class_versus_desktop_class_hard_drives_.pdf
 - [Western Digital TLER](#)
 - <http://www.wdc.com/wdproducts/library/other/2579-001098.pdf>
 - [Samsung CCTL](#)
 - http://www.samsung.com/global/business/hdd/learningresource/whitepapers/LearningResource_CCTL.html
 - [Seagate ERC](#)
 - <http://seagate.custkb.com/seagate/crm/selfservice/search.jsp?DocId=203991&NewLang=en>
3. HDD's have been tested in room temperature.
4. Please keep the NAS in an airconditioned environment.
5. Thecus does NOT guarantee any RAID data safety and the NAS storage administrator has to backup the data regularly.
6. The EXT3 File System has a limitation of 8TB per volume, a workaround for this limitation can be:
 - 6.1 Use another File System (XFS) in case you would like to use a bigger RAID volume.
 - 6.2 Use multiple RAID volumes.
7. The EXT4 File system has a limitation of 16TB per volume.