



N8900

HDD Compatibility List

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

Hitachi

Series	Model	Interface	Capacity (GB)	Rotational Speed (RPM)	Buffer Size (MB)	NAS Firmware	Form Factor	Recently Updated *
Ultrastar 7K3000	HUA723030ALA640	SATA 6.0Gb/s	3000	7200	64	2.00.01	3.5"	OK 2011/07/12
Ultrastar 7K3000	HUA723020ALA640	SATA 6.0Gb/s	2000	7200	64	2.00.01	3.5"	OK 2011/07/12

Seagate

Series	Model	Interface	Capacity (GB)	Rotational Speed (RPM)	Buffer Size (MB)	NAS Firmware	Form Factor	Recently Updated *
Cheetah 15K.6	ST3450856SS	SAS 3.0Gb/s	450	15000	16	2.00.01	3.5"	OK 2011/07/12
Cheetah 15K.6	ST3300656SS	SAS 3.0Gb/s	300	15000	16	2.00.01	3.5"	OK 2011/07/12
Cheetah 15K.6	ST3146356SS	SAS 3.0Gb/s	146	15000	16	2.00.01	3.5"	OK 2011/07/12
Savvio 10K.5	ST9300605SS	SAS 6.0Gb/s	300	10000	-	2.00.01	2.5"	OK 2011/07/12
Constellation ES.2	ST33000650NS	SATA 6.0Gb/s	3000	7200	64	2.00.01	3.5"	OK 2011/07/12
Constellation.2	ST91000640SS	SAS 6.0Gb/s	1000	7200	64	2.00.01	2.5"	OK 2011/07/12
Constellation.2	ST9500620SS	SAS 6.0Gb/s	500	7200	64	2.00.01	2.5"	OK 2011/07/12
Constellation.2	ST91000640NS	SATA 6.0Gb/s	1000	7200	64	2.00.01	2.5"	OK 2011/07/12
Constellation.2	ST9500620NS	SATA 6.0Gb/s	500	7200	64	2.00.01	2.5"	OK 2011/07/12
Constellation.2	ST9250610NS	SATA 6.0Gb/s	250	7200	64	2.00.01	2.5"	OK 2011/07/12
Constellation ES	ST32000444SS	SAS 6.0Gb/s	2000	7200	16	2.00.01	3.5"	OK 2011/07/12
Constellation ES	ST31000424SS	SAS 6.0Gb/s	1000	7200	16	2.00.01	3.5"	OK 2011/07/12
Constellation ES	ST3500414SS	SAS 6.0Gb/s	500	7200	16	2.00.01	3.5"	OK 2011/07/12
Constellation ES	ST32000644NS	SATA 3.0Gb/s	2000	7200	64	2.00.01	3.5"	OK 2011/07/12
Constellation ES	ST31000524NS	SATA 3.0Gb/s	1000	7200	32	2.00.01	3.5"	OK 2011/07/12
Constellation ES	ST3500514NS	SATA 3.0Gb/s	500	7200	32	2.00.01	3.5"	OK 2011/07/12

Western Digital

Series	Model	Interface	Capacity (GB)	Rotational Speed (RPM)	Buffer Size (MB)	NAS Firmware	Form Factor	Recently Updated *
WD VelociRaptor	WD6000HLHX	SATA 6.0Gb/s	600	10000	32	2.00.01	3.5"	OK 2011/07/12
WD VelociRaptor	WD4500HLHX	SATA 6.0Gb/s	450	10000	32	2.00.01	3.5"	OK 2011/07/12
WD RE4	WD2003FYYS	SATA 3.0Gb/s	2000	7200	64	2.00.01	3.5"	OK 2011/07/12
WD RE4	WD1503FYYS	SATA 3.0Gb/s	1500	7200	64	2.00.01	3.5"	OK 2011/07/12
WD RE4	WD1003FBYX	SATA 3.0Gb/s	1000	7200	64	2.00.01	3.5"	OK 2011/07/12
WD RE4	WD5003ABYX	SATA 3.0Gb/s	500	7200	64	2.00.01	3.5"	OK 2011/07/12
WD RE4	WD2503ABYX	SATA 3.0Gb/s	250	7200	64	2.00.01	3.5"	OK 2011/07/12



N8900

HDD Compatibility List

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)	NAS Firmware	Form Factor	Recently Updated *
Deskstar 7K3000	HDS723030ALA640	SATA 6.0Gb/s	3000	7200	64	2.00.01	3.5"	OK 2011/07/12
Deskstar 7K3000	HDS723020BLA642	SATA 6.0Gb/s	2000	7200	64	2.00.01	3.5"	OK 2011/07/12
Deskstar 7K3000	HDS723015BLA642	SATA 6.0Gb/s	1500	7200	64	2.00.01	3.5"	OK 2011/07/12
Deskstar 7K1000.C	HDS721010CLA332	SATA 3.0Gb/s	1000	7200	32	2.00.01	3.5"	OK 2011/07/12
Deskstar 7K1000.C	HDS721075CLA332	SATA 3.0Gb/s	750	7200	32	2.00.01	3.5"	OK 2011/07/12
Deskstar 7K1000.C	HDS721064CLA332	SATA 3.0Gb/s	640	7200	32	2.00.01	3.5"	OK 2011/07/12
Deskstar 7K1000.C	HDS721050CLA362	SATA 3.0Gb/s	500	7200	16	2.00.01	3.5"	OK 2011/07/12
Deskstar 7K1000.C	HDS721032CLA362	SATA 3.0Gb/s	320	7200	16	2.00.01	3.5"	OK 2011/07/12
Deskstar 7K1000.C	HDS721025CLA382	SATA 3.0Gb/s	250	7200	8	2.00.01	3.5"	OK 2011/07/12
Deskstar 7K1000.C	HDS721016CLA382	SATA 3.0Gb/s	160	7200	8	2.00.01	3.5"	OK 2011/07/12
Deskstar 5K3000	HDS5C3030ALA630	SATA 6.0Gb/s	3000	CoolSpin	32	2.00.01	3.5"	OK 2011/07/12
Deskstar 5K3000	HDS5C3020ALA632	SATA 6.0Gb/s	2000	CoolSpin	32	2.00.01	3.5"	OK 2011/07/12
Deskstar 5K3000	HDS5C3015ALA632	SATA 6.0Gb/s	1500	CoolSpin	32	2.00.01	3.5"	OK 2011/07/12

Seagate

Series	Model	Interface	Capacity (GB)	Rotational Speed (RPM)	Buffer Size (MB)	NAS Firmware	Form Factor	Recently Updated *
Barracuda XT	ST33000651AS	SATA 6.0Gb/s	3000	7200	64	2.00.01	3.5"	OK 2011/07/12
Barracuda XT	ST32000641AS	SATA 6.0Gb/s	2000	7200	64	2.00.01	3.5"	OK 2011/07/12
Barracuda 7200.12	ST31000528AS	SATA 3.0Gb/s	1000	7200	32	2.00.01	3.5"	OK 2011/07/12
Barracuda 7200.12	ST3750528AS	SATA 3.0Gb/s	750	7200	32	2.00.01	3.5"	OK 2011/07/12
Barracuda 7200.12	ST3500418AS	SATA 3.0Gb/s	500	7200	16	2.00.01	3.5"	OK 2011/07/12
Barracuda 7200.12	ST3500410AS	SATA 3.0Gb/s	500	7200	16	2.00.01	3.5"	OK 2011/07/12
Barracuda 7200.12	ST3320418AS	SATA 3.0Gb/s	320	7200	16	2.00.01	3.5"	OK 2011/07/12
Barracuda 7200.12	ST3250318AS	SATA 3.0Gb/s	250	7200	8	2.00.01	3.5"	OK 2011/07/12
Barracuda 7200.12	ST3160318AS	SATA 3.0Gb/s	160	7200	8	2.00.01	3.5"	OK 2011/07/12

Notes:

- It's recommended to have the newest available firmware installed on the NAS.
- For business critical environments, we HIGHLY RECOMMEND using enterprise HDD'S:
 - 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>
- The listed HDD's have all been tested in room temperature environments.
- Please keep the NAS in an airconditioned environment.
- Thecus does NOT guarantee any RAID data safety and the NAS storage administrator should back up important data regularly.
- The EXT3 File System is limited to 8TB per volume. Use one of the following methods for larger RAID volumes:
 - 6.1 Use another File System (XFS, EXT4) that supports larger RAID volumes.
 - 6.2 Use multiple RAID volumes.
- The EXT4 File System has a limitation of 16TB per volume.