



# N7700/N7700SAS/N8800/N8800SAS SATA HDD Compatibility List

<b>Enterprise:</b>	(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	5.01.01	3.5"	OK 2011/06/14
Ultrastar 7K3000	HUA723020ALA640	SATA 6.0Gb/s	2000	7200	64	5.01.01	3.5"	OK 2011/06/14

### Seagate

Series	Model	Interface	Capacity (GB)	Rotational Speed (RPM)	Buffer Size (MB)	NAS Firmware	Form Factor	Recently Updated *
Constellation ES.2	ST33000650NS	SATA 6.0Gb/s	3000	7200	64	5.01.01	3.5"	OK 2011/06/14
Constellation ES	ST2000NM0011	SATA 6.0Gb/s	2000	7200	64	5.01.05	3.5"	OK 2011/10/27
Constellation ES	ST1000NM0011	SATA 6.0Gb/s	2000	7200	64	5.01.05	3.5"	OK 2011/10/27
Constellation ES	ST500NM0011	SATA 6.0Gb/s	2000	7200	64	5.01.05	3.5"	OK 2011/10/27
Barracuda ES.2	ST31000340NS	SATA 3.0Gb/s	1000	7200	32		3.5"	OK 2008/11/12
Barracuda ES.2	ST3750330NS	SATA 3.0Gb/s	750	7200	32		3.5"	OK 2008/11/14
Barracuda ES.2	ST3500320NS	SATA 3.0Gb/s	500	7200	32		3.5"	OK 2008/11/14
Barracuda ES.2	ST3250310NS	SATA 3.0Gb/s	250	7200	32		3.5"	OK 2008/11/14

<b>Consumer:</b>	(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	5.01.01	3.5"	OK 2011/06/14
Deskstar 7K3000	HDS723020BLA642	SATA 6.0Gb/s	2000	7200	64	5.01.01	3.5"	OK 2011/06/14
Deskstar 7K3000	HDS723015BLA642	SATA 6.0Gb/s	1500	7200	64	5.01.01	3.5"	OK 2011/06/14
Deskstar 7K2000	HDS722020ALA330	SATA 3.0Gb/s	2000	7200	32		3.5"	OK 2009/10/22
Deskstar 7K1000.C	HDS721010CLA332	SATA 3.0Gb/s	1000	7200	32	5.01.01	3.5"	OK 2011/07/06
Deskstar 7K1000.C	HDS721075CLA332	SATA 3.0Gb/s	750	7200	32	5.01.01	3.5"	OK 2011/07/06
Deskstar 7K1000.C	HDS721064CLA332	SATA 3.0Gb/s	640	7200	32	5.01.01	3.5"	OK 2011/07/06
Deskstar 7K1000.C	HDS721050CLA362	SATA 3.0Gb/s	500	7200	16	5.01.01	3.5"	OK 2011/07/06
Deskstar 7K1000.C	HDS721032CLA362	SATA 3.0Gb/s	320	7200	16	5.01.01	3.5"	OK 2011/07/06
Deskstar 7K1000.C	HDS721025CLA382	SATA 3.0Gb/s	250	7200	8	5.01.01	3.5"	OK 2011/07/06
Deskstar 7K1000.C	HDS721016CLA382	SATA 3.0Gb/s	160	7200	8	5.01.01	3.5"	OK 2011/07/06



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Deskstar 7K1000.B	HDT721010SLA360	SATA 3.0Gb/s	1000	7200	16		3.5"	OK 2009/05/25
Deskstar 7K1000.B	HDT721075SLA360	SATA 3.0Gb/s	750	7200	16		3.5"	OK 2009/05/25
Deskstar 7K1000.B	HDT721064SLA360	SATA 3.0Gb/s	640	7200	16		3.5"	OK 2009/05/25
Deskstar 7K1000.B	HDT721050SLA360	SATA 3.0Gb/s	500	7200	16		3.5"	OK 2009/05/25
Deskstar 7K1000.B	HDT721032SLA360	SATA 3.0Gb/s	320	7200	16		3.5"	OK 2009/05/25
Deskstar 7K1000.B	HDT721025SLA380	SATA 3.0Gb/s	250	7200	8		3.5"	OK 2009/05/25
Deskstar 7K1000.B	HDT721016SLA380	SATA 3.0Gb/s	160	7200	8		3.5"	OK 2009/05/25
Deskstar E7K1000	HDE721010SLA330	SATA 3.0Gb/s	1000	7200	32		3.5"	OK 2009/03/23
Deskstar E7K1000	HDE721075SLA330	SATA 3.0Gb/s	750	7200	32		3.5"	OK 2009/03/23
Deskstar E7K1000	HDE721050SLA330	SATA 3.0Gb/s	500	7200	32		3.5"	OK 2009/03/23
Travelstar Z5K500	HTS545050A7E380	SATA 3.0Gb/s	500	5400	8	5.01.01	2.5"	OK 2011/07/06

### MemoRight

Series	Model	Interface	Capacity (GB)	Rotational Speed (RPM)	Buffer Size (MB)	NAS Firmware	Form Factor	Recently Updated *
Commercial Series	FTM Plus	SATA 6.0Gb/s	480			5.01.05	2.5"	OK 2011/11/30
Commercial Series	FTM Plus	SATA 6.0Gb/s	240			5.01.05	2.5"	OK 2011/11/30
Commercial Series	FTM Plus	SATA 6.0Gb/s	120			5.01.05	2.5"	OK 2011/11/30
Commercial Series	FTM Plus	SATA 6.0Gb/s	60			5.01.05	2.5"	OK 2011/11/30

### 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	5.01.01	3.5"	OK 2011/06/14
Barracuda XT	ST32000641AS(*8)	SATA 6.0Gb/s	2000	7200	64	5.01.01	3.5"	OK 2011/06/14
Barracuda Green	ST2000DL003	SATA 6.0Gb/s	2000	5900	64	5.01.04	3.5"	OK 2011/08/31
Barracuda Green	ST1500DL003	SATA 6.0Gb/s	1500	5900	64	5.01.04	3.5"	OK 2011/08/31
Barracuda LP	ST32000542AS(*8)	SATA 3.0Gb/s	2000	5900	32		3.5"	OK 2009/10/22
Barracuda LP	ST31500541AS	SATA 3.0Gb/s	1500	5900	32		3.5"	OK 2009/10/22
Barracuda LP	ST31000520AS	SATA 3.0Gb/s	1000	5900	32		3.5"	OK 2009/10/22
Barracuda	ST3000DM001	SATA 6.0Gb/s	3000	7200	64	5.01.05	3.5"	OK 2011/11/22
Barracuda	ST2000DM001	SATA 6.0Gb/s	2000	7200	64	5.01.05	3.5"	OK 2011/11/22
Barracuda 7200.12	ST500DM002	SATA 6.0Gb/s	500	7200	16	5.01.05	3.5"	OK 2011/10/27
Barracuda 7200.12	ST31000528AS	SATA 3.0Gb/s	1000	7200	32		3.5"	OK 2009/05/25
Barracuda 7200.12	ST3750528AS	SATA 3.0Gb/s	750	7200	32		3.5"	OK 2009/05/25
Barracuda 7200.12	ST3500418AS	SATA 3.0Gb/s	500	7200	16		3.5"	OK 2009/05/25
Barracuda 7200.12	ST3500410AS	SATA 3.0Gb/s	500	7200	16		3.5"	OK 2009/05/25
Barracuda 7200.12	ST3320418AS	SATA 3.0Gb/s	320	7200	16		3.5"	OK 2009/05/25
Barracuda 7200.12	ST3250318AS	SATA 3.0Gb/s	250	7200	8		3.5"	OK 2009/05/25
Barracuda 7200.12	ST3160318AS	SATA 3.0Gb/s	160	7200	8		3.5"	OK 2009/05/25
Barracuda 7200.11	ST31500341AS	SATA 3.0Gb/s	1500	7200	32		3.5"	OK 2008/11/28



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## Samsung

Series	Model	Interface	Capacity (GB)	Rotational Speed (RPM)	Buffer Size (MB)	NAS Firmware	Form Factor	Recently Updated *
Spinpoint F4	HD204UI	SATA 3.0Gb/s	2000	5400	32	5.01.01	3.5"	OK 2011/07/06
SpinPoint F1	HD103UJ	SATA 3.0Gb/s	1000	7200	32		3.5"	OK 2009/05/25

## Western Digital

Series	Model	Interface	Capacity (GB)	Rotational Speed (RPM)	Buffer Size (MB)	NAS Firmware	Form Factor	Recently Updated *
Caviar Black	WD2002FAEX	SATA 6.0Gb/s	2000	7200	64		3.5"	Not recommend (*9)
Caviar Black	WD1502FAEX	SATA 6.0Gb/s	1500	7200	64		3.5"	Not recommend (*9)
Caviar Black	WD1002FAEX	SATA 6.0Gb/s	1000	7200	64		3.5"	Not recommend (*9)
Caviar Black	WD6402AAEX	SATA 6.0Gb/s	640	7200	64		3.5"	Not recommend (*9)
Caviar Black	WD2001FASS	SATA 3.0Gb/s	2000	7200	64		3.5"	Not recommend (*9)
Caviar Blue	WD10EALX	SATA 6.0Gb/s	1000	7200	32		3.5"	Pass (*10)
Caviar Blue	WD7500AALX	SATA 6.0Gb/s	750	7200	32		3.5"	Not recommend (*9)
Caviar Blue	WD5000AAKX	SATA 6.0Gb/s	500	7200	16		3.5"	Not recommend (*9)
Caviar Blue	WD10EALS	SATA 3.0Gb/s	1000	7200	32		3.5"	Pass (*10)
Caviar Blue	WD6400AAKS	SATA 3.0Gb/s	640	7200	16		3.5"	Pass (*10)
Caviar Blue	WD5000AAKS	SATA 3.0Gb/s	500	7200	16		3.5"	Pass (*10)
Caviar Blue	WD4000AAKS	SATA 3.0Gb/s	400	7200	16		3.5"	Pass (*10)
Caviar Blue	WD3200AAKS	SATA 3.0Gb/s	320	7200	16		3.5"	Pass (*10)
Caviar Blue	WD2500AAKS	SATA 3.0Gb/s	250	7200	16		3.5"	Pass (*10)
Caviar Blue	WD800AAJS	SATA 3.0Gb/s	80	7200	8		3.5"	Pass (*10)
Caviar Green	WD20EARS	SATA 3.0Gb/s	2000	IntelliPower	64		3.5"	Not recommend (*9)
Caviar Green	WD15EARS	SATA 3.0Gb/s	1500	IntelliPower	64		3.5"	Not recommend (*9)
Caviar Green	WD10EARS	SATA 3.0Gb/s	1000	IntelliPower	64		3.5"	Not recommend (*9)
Caviar Green	WD20EADS	SATA 3.0Gb/s	2000	IntelliPower	32		3.5"	Not recommend (*9)
Caviar Green	WD15EADS	SATA 3.0Gb/s	1500	IntelliPower	32		3.5"	Not recommend (*9)
Caviar Green	WD10EADS	SATA 3.0Gb/s	1000	IntelliPower	32		3.5"	Not recommend (*9)
Caviar Green	WD10EACS	SATA 3.0Gb/s	1000	IntelliPower™	16		3.5"	Pass (*10)
Caviar Green	WD7500AACS	SATA 3.0Gb/s	750	IntelliPower™	32		3.5"	Pass (*10)
Caviar Green	WD6400AACS	SATA 3.0Gb/s	640	IntelliPower™	32		3.5"	Pass (*10)
Caviar Green	WD5000AACS	SATA 3.0Gb/s	500	IntelliPower™	32		3.5"	Pass (*10)
AV-GP	WD20EVDS	SATA 3.0Gb/s	2000	IntelliPower	32		3.5"	Not recommend (*9)



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### 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:
  - Enterprise versus Desktop HDD's (Intel)  
[ftp://download.intel.com/support/motherboards/server/sb/enterprise\\_class\\_versus\\_desktop\\_class\\_hard\\_drives\\_.pdf](ftp://download.intel.com/support/motherboards/server/sb/enterprise_class_versus_desktop_class_hard_drives_.pdf)
  - Western Digital TLER  
<http://www.wdc.com/en/library/other/2579-001098.pdf>
  - Samsung CCTL  
[http://www.samsung.com/global/business/hdd/learningresource/whitepapers/LearningResource\\_CCTL.html](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. The listed HDD's have all been tested in room temperature environments.
4. Please keep the NAS in an airconditioned environment.
5. Thecus does NOT guarantee any RAID data safety and the NAS storage administrator should back up important data regularly.
6. 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, ZFS) that supports larger RAID volumes.
  - 6.2 Use multiple RAID volumes.
  - 6.3 For details info, please refer to the online knowledge base:  
[http://esupport.thecus.com/support/index.php?\\_m=knowledgebase&\\_a=viewarticle&kbarticleid=136](http://esupport.thecus.com/support/index.php?_m=knowledgebase&_a=viewarticle&kbarticleid=136)
7. The EXT4 and XFS File System has a limitation of 16TB per volume.
8. For NAS using Seagate **ST32000641AS** and **ST32000542AS** drives, kindly stay with old v3 firmware temporarily please.  
This release might cause HDD detecting issue while rebooting the NAS. However, the upcoming firmware v5.03.xx will have a fix for these two Seagate drives.
9. WD has suggested not to use the desktop consumer hard disk in business-critical RAID environments because the drives may not work correctly.  
For more detail, please refer to [http://wdc.custhelp.com/app/answers/detail/a\\_id/1397](http://wdc.custhelp.com/app/answers/detail/a_id/1397)
10. The hard disks have passed Thecus lab's initial verification of compatibility.  
However, WD has suggested not to use the desktop consumer hard disk drives in business-critical RAID environments because the drives may not work correctly.  
For more detail, please refer to [http://wdc.custhelp.com/app/answers/detail/a\\_id/1397](http://wdc.custhelp.com/app/answers/detail/a_id/1397)