



1U4600/N0503/N3200XXX/N5500/N7700Plus/N7700PRO/N8800Plus/N8800PRO 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	5.00.04	3.5"	OK 2011/04/21
Ultrastar 7K3000	HUA723020ALA640	SATA 6.0Gb/s	2000	7200	64	5.00.04	3.5"	OK 2011/04/28
Ultrastar A7K1000	HUA721010KLA330	SATA 3.0Gb/s	1000	7200	32	3.05.02.2	3.5"	OK 2010/11/01
Ultrastar A7K1000	HUA721075KLA330	SATA 3.0Gb/s	750	7200	32	3.05.02.2	3.5"	OK 2010/11/01
Ultrastar A7K1000	HUA721050KLA330	SATA 3.0Gb/s	500	7200	32	3.05.02.2	3.5"	OK 2010/11/01

Seagate

Series	Model	Interface	Capacity (GB)	Rotational Speed (RPM)	Buffer Size (MB)	NAS Firmware	Form Factor	Recently Updated *
Constellation.2	ST91000640NS	SATA 6.0Gb/s	1000	7200	64	5.00.02	2.5"	OK 2011/03/18
Constellation ES.2	ST33000650NS	SATA 6.0Gb/s	3000	7200	64	5.00.04	3.5"	OK 2011/05/27
Constellation ES	ST2000NM0011	SATA 6.0Gb/s	2000	7200	64	5.01.05	3.5"	OK 2011/09/13
Constellation ES	ST1000NM0011	SATA 6.0Gb/s	1000	7200	64	5.01.05	3.5"	OK 2011/09/13
Constellation ES	ST500NM0011	SATA 6.0Gb/s	500	7200	64	5.01.05	3.5"	OK 2011/09/13
Constellation ES	ST32000644NS	SATA 3.0Gb/s	2000	7200	64	3.01.01	3.5"	OK 2010/04/06
Constellation ES	ST31000524NS	SATA 3.0Gb/s	1000	7200	32	3.01.01	3.5"	OK 2010/04/06
Constellation ES	ST3500514NS	SATA 3.0Gb/s	500	7200	32	3.01.01	3.5"	OK 2010/04/06

Western Digital

Series	Model	Interface	Capacity (GB)	Rotational Speed (RPM)	Buffer Size (MB)	NAS Firmware	Form Factor	Recently Updated *
WD VelociRaptor	WD3000BLFS	SATA 3.0Gb/s	300	10000	16	3.01.01	2.5"	OK 2010/05/04
WD VelociRaptor	WD1500BLFS	SATA 3.0Gb/s	150	10000	16	3.01.01	2.5"	OK 2010/05/04
WD RE4-GP	WD2002FYPS	SATA 3.0Gb/s	2000	IntelliPower™	64	3.01.01	3.5"	OK 2010/05/04
WD RE4	WD1003FBYX	SATA 3.0Gb/s	1000	7200	64	3.01.01	3.5"	OK 2010/05/04
WD RE4	WD5003ABYX	SATA 3.0Gb/s	500	7200	64	3.01.01	3.5"	OK 2010/05/04
WD RE4	WD2003FYYS	SATA 3.0Gb/s	2000	7200	64	3.01.01	3.5"	OK 2010/05/04
WD RE4	WD1503FYYS	SATA 3.0Gb/s	1500	7200	64	3.01.01	3.5"	OK 2010/05/04
WD RE3	WD1002FBYS	SATA 3.0Gb/s	1000	7200	32	3.01.01	3.5"	OK 2010/05/04



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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	5.00.02	3.5"	OK 2011/03/18
Deskstar 7K3000	HDS723020BLA642	SATA 6.0Gb/s	2000	7200	64	5.00.02	3.5"	OK 2011/03/18
Deskstar 7K3000	HDS723015BLA642	SATA 6.0Gb/s	1500	7200	64	5.00.02	3.5"	OK 2011/03/18
Deskstar 7K2000	HDS722020ALA330	SATA 3.0Gb/s	2000	7200	32	3.00.08b	3.5"	OK 2010/01/26
Deskstar 7K1000.C	HDS721010CLA332	SATA 3.0Gb/s	1000	7200	32	3.00.08b	3.5"	OK 2010/01/26
Deskstar 7K1000.C	HDS721075CLA332	SATA 3.0Gb/s	750	7200	32	3.00.08b	3.5"	OK 2010/01/26
Deskstar 7K1000.C	HDS721064CLA332	SATA 3.0Gb/s	640	7200	32	3.00.08b	3.5"	OK 2010/01/26
Deskstar 7K1000.C	HDS721050CLA362	SATA 3.0Gb/s	500	7200	16	3.00.08b	3.5"	OK 2010/01/26
Deskstar 7K1000.C	HDS721032CLA362	SATA 3.0Gb/s	320	7200	16	3.00.08b	3.5"	OK 2010/01/26
Deskstar 7K1000.C	HDS721025CLA382	SATA 3.0Gb/s	250	7200	8	3.00.08b	3.5"	OK 2010/01/26
Deskstar 7K1000.C	HDS721016CLA382	SATA 3.0Gb/s	160	7200	8	3.00.08b	3.5"	OK 2010/01/26
Deskstar 7K1000.B	HDT721010SLA360	SATA 3.0Gb/s	1000	7200	16	3.00.08	3.5"	OK 2009/11/23
Deskstar 7K1000.B	HDT721075SLA360	SATA 3.0Gb/s	750	7200	16	3.00.08	3.5"	OK 2009/11/23
Deskstar 7K1000.B	HDT721064SLA360	SATA 3.0Gb/s	640	7200	16	3.00.08	3.5"	OK 2009/11/23
Deskstar 7K1000.B	HDT721050SLA360	SATA 3.0Gb/s	500	7200	16	3.00.08	3.5"	OK 2009/11/23
Deskstar 7K1000.B	HDT721032SLA360	SATA 3.0Gb/s	320	7200	16	3.00.08	3.5"	OK 2009/11/23
Deskstar 7K1000.B	HDT721025SLA380	SATA 3.0Gb/s	250	7200	8	3.00.08	3.5"	OK 2009/11/23
Deskstar 7K1000.B	HDT721016SLA380	SATA 3.0Gb/s	160	7200	8	3.00.08	3.5"	OK 2009/11/23
Deskstar E7K1000	HDE721010SLA330	SATA 3.0Gb/s	1000	7200	32	3.00.08	3.5"	OK 2009/11/23
Deskstar E7K1000	HDE721075SLA330	SATA 3.0Gb/s	750	7200	32	3.00.08	3.5"	OK 2009/11/23
Deskstar E7K1000	HDE721050SLA330	SATA 3.0Gb/s	500	7200	32	3.00.08	3.5"	OK 2009/11/23
Deskstar 5K3000	HDS5C3030ALA630	SATA 6.0Gb/s	3000	CoolSpin	32	5.00.04	3.5"	OK 2011/05/27
Deskstar 5K3000	HDS5C3020ALA632	SATA 6.0Gb/s	2000	CoolSpin	32	5.00.04	3.5"	OK 2011/05/27
Deskstar 5K3000	HDS5C3015ALA632	SATA 6.0Gb/s	1500	CoolSpin	32	5.00.04	3.5"	OK 2011/05/27
Deskstar 5K1000	HDS5C1010CLA382	SATA 3.0Gb/s	1000	CoolSpin	8	3.05.02.2	3.5"	OK 2010/11/01
Deskstar 5K1000	HDS5C1050CLA382	SATA 3.0Gb/s	500	CoolSpin	8	3.05.02.2	3.5"	OK 2010/11/01
Travelstar Z5K500	HTS545050A7E380	SATA 3.0Gb/s	500	5400	8	5.01.05	2.5"	OK 2011/09/13
Travelstar Z5K500	HTS545032A7E380	SATA 3.0Gb/s	320	5400	8	5.01.05	2.5"	OK 2011/09/13
Travelstar Z5K500	HTS545025A7E380	SATA 3.0Gb/s	250	5400	8	5.01.05	2.5"	OK 2011/09/13



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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 2011/11/16
Commercial Series	FTM Plus	SATA 6.0Gb/s	240	-	-	5.01.05	2.5"	* OK 2011/11/16
Commercial Series	FTM Plus	SATA 6.0Gb/s	120	-	-	5.01.05	2.5"	* OK 2011/11/16
Commercial Series	FTM Plus	SATA 6.0Gb/s	60	-	-	5.01.05	2.5"	* OK 2011/11/16

Seagate

Series	Model	Interface	Capacity (GB)	Rotational Speed (RPM)	Buffer Size (MB)	NAS Firmware	Form Factor	Recently Updated *
Barracuda	ST3000DM001	SATA 6.0Gb/s	3000	7200	64	5.01.05	3.5"	* OK 2011/11/16
Barracuda	ST2000DM001	SATA 6.0Gb/s	2000	7200	64	5.01.05	3.5"	* OK 2011/11/16
Barracuda XT	ST33000651AS	SATA 6.0Gb/s	3000	7200	64	5.00.04	3.5"	OK 2011/05/27
Barracuda XT	ST32000641AS	SATA 6.0Gb/s	2000	7200	64	3.01.01	3.5"	OK 2010/03/11
Barracuda Green	ST2000DL003	SATA 6.0Gb/s	2000	5900	64	5.00.02	3.5"	OK 2011/03/18
Barracuda Green	ST1500DL003	SATA 6.0Gb/s	1500	5900	64	5.00.02	3.5"	OK 2011/04/28
Barracuda LP	ST32000542AS	SATA 3.0Gb/s	2000	5900	32	3.00.08b	3.5"	OK 2010/01/26
Barracuda LP	ST31500541AS	SATA 3.0Gb/s	1500	5900	32	3.00.08b	3.5"	OK 2010/01/26
Barracuda LP	ST31000520AS	SATA 3.0Gb/s	1000	5900	32	3.00.08b	3.5"	OK 2010/01/26
Barracuda 7200.12	ST31000524AS	SATA 6.0Gb/s	1000	7200	32	5.00.04	3.5"	OK 2011/04/21
Barracuda 7200.12	ST3500413AS	SATA 6.0Gb/s	500	7200	16	5.00.04	3.5"	OK 2011/04/21
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	3.00.08b	3.5"	OK 2010/01/26
Barracuda 7200.12	ST3750528AS	SATA 3.0Gb/s	750	7200	32	3.00.08b	3.5"	OK 2010/01/26
Barracuda 7200.12	ST3500418AS	SATA 3.0Gb/s	500	7200	16	3.00.08b	3.5"	OK 2010/01/26
Barracuda 7200.12	ST3500410AS	SATA 3.0Gb/s	500	7200	16	3.00.08b	3.5"	OK 2010/01/26
Barracuda 7200.12	ST3320418AS	SATA 3.0Gb/s	320	7200	16	3.00.08b	3.5"	OK 2010/01/26
Barracuda 7200.12	ST3250318AS	SATA 3.0Gb/s	250	7200	8	3.00.08b	3.5"	OK 2010/01/26
Barracuda 7200.12	ST3160318AS	SATA 3.0Gb/s	160	7200	8	3.00.08b	3.5"	OK 2010/01/26
Barracuda 7200.11	ST31500341AS	SATA 3.0Gb/s	1500	7200	32	3.00.08b	3.5"	OK 2010/01/26
Barracuda 7200.11	ST31000340AS	SATA 3.0Gb/s	1000	7200	32	3.00.08b	3.5"	OK 2010/01/26
Barracuda 7200.11	ST31000333AS	SATA 3.0Gb/s	1000	7200	32	3.00.08b	3.5"	OK 2010/01/26
Barracuda 7200.11	ST3750330AS	SATA 3.0Gb/s	750	7200	32	3.00.08b	3.5"	OK 2010/01/26
Barracuda 7200.11	ST3640323AS	SATA 3.0Gb/s	640	7200	32	3.00.08b	3.5"	OK 2010/01/26
Barracuda 7200.11	ST3500320AS	SATA 3.0Gb/s	500	7200	32	3.00.08b	3.5"	OK 2010/01/26
Barracuda 7200.11	ST3320613AS	SATA 3.0Gb/s	320	7200	16	3.00.08b	3.5"	OK 2010/01/26



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HDD Compatibility List

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	5.00.02	3.5"	OK 2011/03/18
EcoGreen F3	HD203WI	SATA 3.0Gb/s	2000	5400	32	3.00.08b	3.5"	OK 2010/08/23
EcoGreen F2	HD103SI	SATA 3.0Gb/s	1000	5400	32	3.00.08b	3.5"	OK 2010/08/23
SpinPoint F1	HD103UJ	SATA 3.0Gb/s	1000	7200	32	3.00.08	3.5"	OK 2009/11/23

Toshiba

Series	Model	Interface	Capacity (GB)	Rotational Speed (RPM)	Buffer Size (MB)	NAS Firmware	Form Factor	Recently Updated *
SATA 640GB	MK6459GSX	SATA 3.0Gb/s	640	5400	8	3.01.01	2.5"	OK 2010/05/04

Western Digital

Series	Model	Interface	Capacity (GB)	Rotational Speed (RPM)	Buffer Size (MB)	NAS Firmware	Form Factor	Recently Updated *
WD Caviar Black	WD2002FAEX	SATA 6.0Gb/s	2000	7200	64	3.05.02.2	3.5"	OK 2011/03/18 (*9)
WD Caviar Black	WD1502FAEX	SATA 6.0Gb/s	1500	7200	64	5.00.04	3.5"	OK 2011/04/21 (*9)
WD Caviar Black	WD1002FAEX	SATA 6.0Gb/s	1000	7200	64	-	3.5"	Not recommend (*10)
WD Caviar Black	WD6402AAEX	SATA 6.0Gb/s	640	7200	64	-	3.5"	Not recommend (*10)
WD Caviar Black	WD2001FASS	SATA 3.0Gb/s	2000	7200	64	-	3.5"	Not recommend (*10)
WD Caviar Blue	WD10EALX	SATA 6.0Gb/s	1000	7200	32	3.05.02.2	3.5"	OK 2010/12/07 (*9)
WD Caviar Blue	WD7500AALX	SATA 6.0Gb/s	750	7200	32	5.00.04	3.5"	OK 2011/04/21 (*9)
WD Caviar Blue	WD5000AAKX	SATA 6.0Gb/s	500	7200	16	5.00.04	3.5"	OK 2011/04/21 (*9)
WD Caviar Blue	WD10EALS	SATA 3.0Gb/s	1000	7200	32	3.04.03	3.5"	OK 2010/09/02 (*9)
WD Caviar Blue	WD7500AAKS	SATA 3.0Gb/s	750	7200	16	3.00.08b	3.5"	OK 2010/01/26 (*9)
WD Caviar Blue	WD6400AAKS	SATA 3.0Gb/s	640	7200	16	3.00.08b	3.5"	OK 2010/01/26 (*9)
WD Caviar Blue	WD5000AAKS	SATA 3.0Gb/s	500	7200	16	3.00.08b	3.5"	OK 2010/01/26 (*9)
WD Caviar Blue	WD4000AAKS	SATA 3.0Gb/s	400	7200	16	3.00.08b	3.5"	OK 2010/01/26 (*9)
WD Caviar Blue	WD3200AAKS	SATA 3.0Gb/s	320	7200	16	3.00.08b	3.5"	OK 2010/01/26 (*9)
WD Caviar Blue	WD2500AAKS	SATA 3.0Gb/s	250	7200	16	3.00.08b	3.5"	OK 2010/01/26 (*9)
WD Caviar Green	WD20EARS	SATA 3.0Gb/s	2000	IntelliPower™	64	-	3.5"	Not recommend (*10)
WD Caviar Green	WD15EARS	SATA 3.0Gb/s	1500	IntelliPower™	64	-	3.5"	Not recommend (*10)
WD Caviar Green	WD10EARS	SATA 3.0Gb/s	1000	IntelliPower™	64	-	3.5"	Not recommend (*10)
WD Caviar Green	WD20EADS	SATA 3.0Gb/s	2000	IntelliPower™	32	3.00.08b	3.5"	OK 2010/01/26 (*9)
WD Caviar Green	WD15EADS	SATA 3.0Gb/s	1500	IntelliPower™	32	3.00.08b	3.5"	OK 2010/01/26 (*9)
WD Caviar Green	WD10EADS	SATA 3.0Gb/s	1000	IntelliPower™	32	3.00.08b	3.5"	OK 2010/01/26 (*9)
WD AV-GP	WD20EVDS	SATA 3.0Gb/s	2000	IntelliPower™	32	-	3.5"	Not recommend (*10)
WD Scorpio Blue	WD5000BEVT	SATA 3.0Gb/s	500	5400	8	3.01.01	2.5"	OK 2010/05/04 (*9)
WD Scorpio Blue	WD4000BEVT	SATA 3.0Gb/s	400	5400	8	3.01.01	2.5"	OK 2010/05/04 (*9)
WD Scorpio Blue	WD3200BEVT	SATA 3.0Gb/s	320	5400	8	3.01.01	2.5"	OK 2010/05/04 (*9)
WD Scorpio Blue	WD2500BEVT	SATA 3.0Gb/s	250	5400	8	3.01.01	2.5"	OK 2010/05/04 (*9)
WD Scorpio Blue	WD1600BEVT	SATA 3.0Gb/s	160	5400	8	3.01.01	2.5"	OK 2010/05/04 (*9)
WD Scorpio Blue	WD1200BEVT	SATA 3.0Gb/s	120	5400	8	3.01.01	2.5"	OK 2010/05/04 (*9)
WD Scorpio Blue	WD800BEVT	SATA 3.0Gb/s	80	5400	8	3.01.01	2.5"	OK 2010/05/04 (*9)



1U4600/N0503/N3200XXX/N5500/N7700Plus/N7700PRO/N8800Plus/N8800PRO HDD Compatibility List

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
 - 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
 - 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>
7. The EXT4 and XFS File System has a limitation of 16TB per volume.
8. Please notice that N3200XXX does NOT support 2.5" drives.
9. **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.
Please refer to http://wdc.custhelp.com/app/answers/detail/a_id/1397
10. WD has suggested not to use the desktop consumer hard disk drives in business-critical RAID environments because the drives may not work correctly.
Please refer to http://wdc.custhelp.com/app/answers/detail/a_id/1397