



N5200 / N5200PRO / 1U4500

HDD Compatibility List

Hitachi									
Series	Model	Interface	Capacity (GB)	Rotational Speed (RPM)	Buffer Size (MB)	NAS Firmware	Form Factor	Recently Updated *	
Deskstar 7K3000	HDS723020BLA642	SATA 6.0 Gb/s (*10)	2000	7200	64	2.00.18.5	3.5"	OK 2011/05/09	
Deskstar 7K3000	HDS723015BLA642	SATA 6.0 Gb/s (*10)	1500	7200	64	2.00.18.5	3.5"	OK 2011/05/09	
Deskstar E7K1000	HDE721010SLA330	SATA 3.0 Gb/s	1000	7200	32	2.00.16 (*1)	3.5"	OK 2009/03/23	
Deskstar E7K1000	HDE721075SLA330	SATA 3.0 Gb/s	750	7200	32	2.00.16 (*1)	3.5"	OK 2009/03/23	
Deskstar E7K1000	HDE721050SLA330	SATA 3.0 Gb/s	500	7200	32	2.00.16 (*1)	3.5"	OK 2009/03/23	
Deskstar 7K1000.D	HDS721010DLE630	SATA 6.0 Gb/s (*10)	1000	7200	32	2.00.18.8 (*3)	3.5"	* OK 2012/04/03	
Deskstar 7K1000.D	HDS721075DLE630	SATA 6.0 Gb/s (*10)	750	7200	32	2.00.18.8 (*3)	3.5"	* OK 2012/04/03	
Deskstar 7K1000.D	HDS721050DLE630	SATA 6.0 Gb/s (*10)	500	7200	32	2.00.18.8 (*3)	3.5"	* OK 2012/04/03	
Deskstar 7K1000.D	HDS721032DLE630	SATA 6.0 Gb/s (*10)	320	7200	32	2.00.18.8 (*3)	3.5"	* OK 2012/04/03	
Deskstar 7K1000.D	HDS721025DLE630	SATA 6.0 Gb/s (*10)	250	7200	32	2.00.18.8 (*3)	3.5"	* OK 2012/04/03	
Deskstar 7K1000.C	HDS721010CLA332	SATA 3.0 Gb/s	1000	7200	32	2.00.18.4	3.5"	OK 2010/04/12	
Deskstar 7K1000.C	HDS721075CLA332	SATA 3.0 Gb/s	750	7200	32	2.00.18.4	3.5"	OK 2010/04/12	
Deskstar 7K1000.C	HDS721064CLA332	SATA 3.0 Gb/s	640	7200	32	2.00.18.4	3.5"	OK 2010/04/12	
Deskstar 7K1000.C	HDS721050CLA362	SATA 3.0 Gb/s	500	7200	16	2.00.18.4	3.5"	OK 2010/04/12	
Deskstar 7K1000.C	HDS721032CLA362	SATA 3.0 Gb/s	320	7200	16	2.00.18.4	3.5"	OK 2010/04/12	
Deskstar 7K1000.C	HDS721025CLA382	SATA 3.0 Gb/s	250	7200	8	2.00.18.4	3.5"	OK 2010/04/12	
Deskstar 7K1000.C	HDS721016CLA382	SATA 3.0 Gb/s	160	7200	8	2.00.18.4	3.5"	OK 2010/04/12	
Deskstar 7K1000.B	HDT721010SLA360	SATA 3.0 Gb/s	1000	7200	16	2.00.16 (*1)	3.5"	OK 2009/05/22	
Deskstar 7K1000.B	HDT721075SLA360	SATA 3.0 Gb/s	750	7200	16	2.00.16 (*1)	3.5"	OK 2009/05/22	
Deskstar 7K1000.B	HDT721064SLA360	SATA 3.0 Gb/s	640	7200	16	2.00.16 (*1)	3.5"	OK 2009/05/22	
Deskstar 7K1000.B	HDT721050SLA360	SATA 3.0 Gb/s	500	7200	16	2.00.16 (*1)	3.5"	OK 2009/05/22	
Deskstar 7K1000.B	HDT721032SLA360	SATA 3.0 Gb/s	320	7200	16	2.00.16 (*1)	3.5"	OK 2009/05/22	
Deskstar 7K1000.B	HDT721025SLA380	SATA 3.0 Gb/s	250	7200	8	2.00.16 (*1)	3.5"	OK 2009/05/22	
Deskstar 7K1000.B	HDT721016SLA380	SATA 3.0 Gb/s	160	7200	8	2.00.16 (*1)	3.5"	OK 2009/05/22	
Deskstar 7K1000	HDS721010KLA330	SATA 3.0 Gb/s	1000	7200	32	-	3.5"	OK 2007/07/05	
Deskstar T7K500	HDT725032VLA360	SATA 3.0 Gb/s	320	7200	16	-	3.5"	OK 2007/04/04	
Deskstar P7K500	HDP725050GLA360	SATA 3.0 Gb/s	500	7200	16	-	3.5"	OK 2008/08/11	
Deskstar 5K3000	HDS5C3020ALA632	SATA 6.0 Gb/s (*10)	2000	CoolSpin	32	2.00.18.5	3.5"	OK 2011/05/09	
Deskstar 5K3000	HDS5C3015ALA632	SATA 6.0 Gb/s (*10)	1500	CoolSpin	32	2.00.18.5	3.5"	OK 2011/05/09	
Travelstar Z5K500	HTS545050A7E380	SATA 3.0 Gb/s (*4)	500	5400	8	2.00.18.8 (*3)	2.5"	OK 2011/10/20	



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Maxtor

Series	Model	Interface	Capacity (GB)	Rotational Speed (RPM)	Buffer Size (MB)	NAS Firmware	Form Factor	Recently Updated
MaXLine Pro	7H500F0	SATA 3.0Gb/s	500	7200	16	-	3.5"	OK 2007/04/04
DiamondMax 22	STM3500320AS	SATA 3.0Gb/s	500	7200	32	-	3.5"	OK 2008/08/11
DiamondMax 11	6H500F0	SATA 3.0Gb/s	500	7200	16	-	3.5"	OK 2007/04/04
DiamondMax 10	6V320F0	SATA 3.0Gb/s	320	7200	16	-	3.5"	OK 2007/04/04
DiamondMax 10	6L250M0	SATA 1.5Gb/s	320	7200	8	-	3.5"	OK 2007/04/04

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 (*4)	2000	5400	32	2.00.18.8 (*3)	3.5"	OK 2011/10/20
SpinPoint F DT series	HD103UJ	SATA 3.0Gb/s	1000	7200	32	-	3.5"	OK 2008/03/21
SpinPoint T series	HD501LJ	SATA 3.0Gb/s	500	7200	16	-	3.5"	OK 2007/04/04
SpinPoint T series	HD401LJ	SATA 3.0Gb/s	400	7200	16	-	3.5"	OK 2007/04/04

Seagate

Series	Model	Interface	Capacity (GB)	Rotational Speed (RPM)	Buffer Size (MB)	NAS Firmware	Form Factor	Recently Updated *
Barracuda ES.2	ST31000340NS	SATA 3.0Gb/s	1000	7200	32	-	3.5"	OK 2008/04/11
Barracuda ES.2	ST3500320NS	SATA 3.0Gb/s	500	7200	32	-	3.5"	OK 2008/08/11
Barracuda ES	ST3750640NS	SATA 3.0Gb/s	750	7200	16	-	3.5"	OK 2007/04/04
Barracuda ES	ST3500630NS	SATA 3.0Gb/s	500	7200	16	-	3.5"	OK 2007/04/04
Barracuda ES	ST3400620NS	SATA 3.0Gb/s	400	7200	16	-	3.5"	OK 2007/04/04
Barracuda ES	ST3250620NS	SATA 3.0Gb/s	250	7200	16	-	3.5"	OK 2007/04/04
Barracuda Green	ST2000DL003	SATA 6.0 Gb/s (*4, *10)	2000	5900	64	2.00.18.8 (*3)	3.5"	OK 2011/10/20
Barracuda Green	ST1500DL003	SATA 6.0 Gb/s (*4, *10)	1500	5900	64	2.00.18.8 (*3)	3.5"	OK 2011/10/20
Barracuda LP	ST32000542AS	SATA 3.0Gb/s	2000	5900	32	-	3.5"	OK 2010/04/12
Barracuda LP	ST31500541AS	SATA 3.0Gb/s	1500	5900	32	-	3.5"	OK 2010/04/12
Barracuda LP	ST31000520AS	SATA 3.0Gb/s	1000	5900	32	-	3.5"	OK 2010/04/12
Barracuda 7200.12	ST31000528AS	SATA 3.0Gb/s	1000	7200	32	2.00.16	3.5"	OK 2009/05/22
Barracuda 7200.12	ST3750528AS	SATA 3.0Gb/s	750	7200	32	2.00.16	3.5"	OK 2009/05/22
Barracuda 7200.12	ST3500418AS	SATA 3.0Gb/s	500	7200	16	2.00.16	3.5"	OK 2009/05/22
Barracuda 7200.12	ST3500410AS	SATA 3.0Gb/s	500	7200	16	2.00.16	3.5"	OK 2009/05/22



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Barracuda 7200.12	ST3320418AS	SATA 3.0Gb/s	320	7200	16	2.00.16	3.5"	OK 2009/05/22
Barracuda 7200.12	ST3250318AS	SATA 3.0Gb/s	250	7200	8	2.00.16	3.5"	OK 2009/05/22
Barracuda 7200.12	ST3160318AS	SATA 3.0Gb/s	160	7200	8	2.00.16	3.5"	OK 2009/05/22
Barracuda 7200.11	ST31500341AS	SATA 3.0Gb/s	1500	7200	32	-	3.5"	OK 2008/11/14 (*2)
Barracuda 7200.11	ST3500320AS	SATA 3.0Gb/s	500	7200	32	-	3.5"	OK 2008/05/14
Barracuda 7200.11	ST3320613AS	SATA 3.0Gb/s	320	7200	16	-	3.5"	OK 2008/05/14
Barracuda 7200.10	ST3750640AS	SATA 3.0Gb/s	750	7200	16	-	3.5"	OK 2006/08/13
Barracuda 7200.10	ST3500630AS	SATA 3.0Gb/s	500	7200	16	-	3.5"	OK 2006/08/13
Barracuda 7200.10	ST3400620AS	SATA 3.0Gb/s	400	7200	16	-	3.5"	OK 2006/08/13
Barracuda 7200.10	ST3320620AS	SATA 3.0Gb/s	320	7200	16	-	3.5"	OK 2006/08/13
Barracuda 7200.10	ST3250620AS	SATA 3.0Gb/s	250	7200	16	-	3.5"	OK 2007/04/04
Barracuda 7200.10	ST3250820AS	SATA 3.0Gb/s	250	7200	8	-	3.5"	OK 2006/08/13

Toshiba

Series	Model	Interface	Capacity (GB)	Rotational Speed (RPM)	Buffer Size (MB)	NAS Firmware	Form Factor	Recently Updated
MKx002TSKB	MK2002TSKB	SATA 3.0Gb/s	2000	7200	64	2.00.18.8 (*3)	3.5"	* OK 2012/04/03
MKx002TSKB	MK1002TSKB	SATA 3.0Gb/s	1000	7200	64	2.00.18.8 (*3)	3.5"	* OK 2012/04/03

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 (*10)	2000	7200	64	2.00.18.8 (*3)	3.5"	* OK 2012/04/03 (*11)
WD Caviar Black	WD1502FAEX	SATA 6.0Gb/s (*10)	1500	7200	64	2.00.18.8 (*3)	3.5"	* OK 2012/04/03 (*11)
WD Caviar Black	WD1002FAEX	SATA 6.0Gb/s (*10)	1000	7200	64	2.00.18.8 (*3)	3.5"	* OK 2012/04/03 (*11)
WD Caviar Green	WD20EADS	SATA 3.0Gb/s	2000	IntelliPower™	32	2.00.16	3.5"	OK 2009/04/15
WD Caviar Green	WD15EADS	SATA 3.0Gb/s	1500	IntelliPower™	32	2.00.16	3.5"	OK 2009/04/15
WD Caviar Green	WD10EADS	SATA 3.0Gb/s	1000	IntelliPower™	32	2.00.16	3.5"	OK 2009/04/15
WD Cavier RE2-GP	WD1000FYPS	SATA 3.0Gb/s	1000	5400-7200	16	-	3.5"	OK 2008/03/21
WD Caviar RE2	WD3201ABYS	SATA 3.0Gb/s	320	7200	16	-	3.5"	OK 2008/08/11
WD Caviar SE16	WD5000AACS	SATA 3.0Gb/s	500	7200	16	-	3.5"	OK 2008/08/11
WD Caviar SE	WD1600AAJS	SATA 3.0Gb/s	160	7200	8	-	3.5"	OK 2007/07/12



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Notes:

(*1) E7K1000 and 7K1000.B need firmware 2.00.16 or newer version.

(*2) Some users said Seagate had new firmware for 1.5 TB drives. So Thecus recommends contacting Seagate if you plan to use Seagate 1.5 TB drives in Thecus NAS.

Also, please back up RAID data regularly, no matter the HDD is in Thecus compatibility list or not.

Users' feedback:

Seagate P/N: 9JU138-300, 9JU138-336 with SD15, SD16, and SD17 ==> SD1A or newer

Seagate P/N: 9JU138-301 with CC1G ==> CC1H or newer

(*3) It's recommended to have the newest available firmware installed on the NAS. You may download 2.00.18.8 firmware from <http://www.thecus.com/Downloads/beta/>

(*4) To support 4K Advance Format disks, user may need to upgrade the firmware to 2.00.18.8 or newer, and create a new RAID.

(*5) Due to the CPU / Memory limitation, N5200 Standard (non PRO) does not recommend to use 1.5TB and larger hard disk drive.

(*6) 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>

(*7) The listed HDD's have all been tested in room temperature environments.

(*8) Please keep the NAS in an airconditioned environment.

(*9) Thecus does NOT guarantee any RAID data safety and the NAS storage administrator should back up important data regularly.

(*10) N5200 / N5200PRO / 1U4500 supports up to **SATA 3.0Gb/s**. For some drives, you may need to setup jumper to SATA 3Gb/s or 1.5Gb/s.

(*11) **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