



# 4100PRO HDD Compatibilit 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	5.01.04	3.5"	OK 2011/06/29
Ultrastar A7K1000	HUA721010KLA330	SATA 3.0Gb/s	1000	7200	32	3.04.03	3.5"	OK 2010/11/01
Ultrastar A7K1000	HUA721075KLA330	SATA 3.0Gb/s	750	7200	32	3.04.03	3.5"	OK 2010/11/01
Ultrastar A7K1000	HUA721050KLA330	SATA 3.0Gb/s	500	7200	32	3.04.03	3.5"	OK 2010/11/01

## 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	2.01.04	3.5"	OK 2008/11/10
Barracuda ES.2	ST3750330NS	SATA 3.0Gb/s	750	7200	32	2.01.04	3.5"	OK 2008/11/10
Barracuda ES.2	ST3500320NS	SATA 3.0Gb/s	500	7200	32	2.01.04	3.5"	OK 2008/11/10
Barracuda ES.2	ST3250310NS	SATA 3.0Gb/s	250	7200	32	2.01.04	3.5"	OK 2008/11/10
Barracuda ES	ST3750640NS	SATA 3.0Gb/s	750	7200	16	2.01.04	3.5"	OK 2008/11/10
Barracuda ES	ST3500630NS	SATA 3.0Gb/s	500	7200	16	2.01.04	3.5"	OK 2008/11/10
Barracuda ES	ST3400620NS	SATA 3.0Gb/s	400	7200	16	2.01.04	3.5"	OK 2008/11/10
Barracuda ES	ST3250620NS	SATA 3.0Gb/s	250	7200	16	2.01.04	3.5"	OK 2008/11/10

## Western Digital

Series	Model	Interface	Capacity (GB)	Rotational Speed (RPM)	Buffer Size (MB)	NAS Firmware	Form Factor	Recently Updated *
WD RE4	WD1003FBYX	SATA 3.0Gb/s	1000	7200	64	3.01.01	3.5"	OK 2010/06/15
WD RE4	WD5003ABYX	SATA 3.0Gb/s	500	7200	64	3.01.01	3.5"	OK 2010/06/15
WD Raptor	WD360GD	SATA 1.5Gb/s	36.7	10000	8	2.01.04	3.5"	OK 2008/11/10

<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	5.01.04	3.5"	OK 2011/06/29
Deskstar 7K2000	HDS722020ALA330	SATA 3.0Gb/s	2000	7200	32	2.01.09	3.5"	OK 2009/09/06
Deskstar E7K1000	HDE721010SLA330	SATA 3.0 Gb/s	1000	7200	32	2.01.07	3.5"	OK 2009/03/23
Deskstar E7K1000	HDE721075SLA330	SATA 3.0 Gb/s	750	7200	32	2.01.07	3.5"	OK 2009/03/23
Deskstar E7K1000	HDE721050SLA330	SATA 3.0 Gb/s	500	7200	32	2.01.07	3.5"	OK 2009/03/23



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Deskstar 7K1000.C	HDS721010CLA332	SATA 3.0Gb/s	1000	7200	32	2.01.09	3.5"	OK 2009/12/22
Deskstar 7K1000.C	HDS721075CLA332	SATA 3.0Gb/s	750	7200	32	2.01.09	3.5"	OK 2009/12/22
Deskstar 7K1000.C	HDS721064CLA332	SATA 3.0Gb/s	640	7200	32	2.01.09	3.5"	OK 2009/12/22
Deskstar 7K1000.C	HDS721050CLA362	SATA 3.0Gb/s	500	7200	16	2.01.09	3.5"	OK 2009/12/22
Deskstar 7K1000.C	HDS721032CLA362	SATA 3.0Gb/s	320	7200	16	2.01.09	3.5"	OK 2009/12/22
Deskstar 7K1000.C	HDS721025CLA382	SATA 3.0Gb/s	250	7200	8	2.01.09	3.5"	OK 2009/12/22
Deskstar 7K1000.C	HDS721016CLA382	SATA 3.0Gb/s	160	7200	8	2.01.09	3.5"	OK 2009/12/22
Deskstar 7K1000.B	HDT721010SLA360	SATA 3.0Gb/s	1000	7200	16	2.01.09	3.5"	OK 2009/05/22
Deskstar 7K1000.B	HDT721075SLA360	SATA 3.0Gb/s	750	7200	16	2.01.09	3.5"	OK 2009/05/22
Deskstar 7K1000.B	HDT721064SLA360	SATA 3.0Gb/s	640	7200	16	2.01.09	3.5"	OK 2009/05/22
Deskstar 7K1000.B	HDT721050SLA360	SATA 3.0Gb/s	500	7200	16	2.01.09	3.5"	OK 2009/05/22
Deskstar 7K1000.B	HDT721032SLA360	SATA 3.0Gb/s	320	7200	16	2.01.09	3.5"	OK 2009/05/22
Deskstar 7K1000.B	HDT721025SLA380	SATA 3.0Gb/s	250	7200	8	2.01.09	3.5"	OK 2009/05/22
Deskstar 7K1000.B	HDT721016SLA380	SATA 3.0Gb/s	160	7200	8	2.01.09	3.5"	OK 2009/05/22
Deskstar 7K1000	HDS721010KLA330	SATA 3.0 Gb/s	1000	7200	32	2.01.04	3.5"	OK 2008/11/10
Deskstar 7K1000	HDS721075KLA330	SATA 3.0 Gb/s	750	7200	32	2.01.04	3.5"	OK 2008/11/10
Deskstar 5K3000	HDS5C3030ALA630	SATA 6.0Gb/s	3000	CoolSpin	32	5.01.04	3.5"	OK 2011/06/29
Deskstar 5K1000	HDS5C1010CLA382	SATA 3.0Gb/s	1000	CoolSpin	8	3.04.03	3.5"	OK 2010/11/01
Deskstar 5K1000	HDS5C1050CLA382	SATA 3.0Gb/s	500	CoolSpin	8	3.04.03	3.5"	OK 2010/11/01
Travelstar Z5K500	HTS545050A7E380	SATA 3.0Gb/s	500	5400	8	5.01.04	2.5"	OK 2011/06/29

### Seagate

Series	Model	Interface	Capacity (GB)	Rotational Speed (RPM)	Buffer Size (MB)	NAS Firmware	Form Factor	Recently Updated *
Barracuda Green	ST2000DL003	SATA 6.0Gb/s	2000	5900	64	5.01.04	3.5"	OK 2011/07/11
Barracuda Green	ST1500DL003	SATA 6.0Gb/s	1500	5900	64	5.01.04	3.5"	OK 2011/07/11
Barracuda LP	ST32000542AS	SATA 3.0Gb/s	2000	5900	32	3.01.01	3.5"	OK 2010/05/31
Barracuda LP	ST31500541AS	SATA 3.0Gb/s	1500	5900	32	3.01.01	3.5"	OK 2010/05/31
Barracuda LP	ST31000520AS	SATA 3.0Gb/s	1000	5900	32	3.01.01	3.5"	OK 2010/05/31
Barracuda 7200.12	ST31000524AS	SATA 6.0Gb/s	1000	7200	32	5.01.04	3.5"	OK 2011/06/29
Barracuda 7200.12	ST3500413AS	SATA 6.0Gb/s	500	7200	16	5.01.04	3.5"	OK 2011/06/29
Barracuda 7200.12	ST31000528AS	SATA 3.0Gb/s	1000	7200	32	2.01.09	3.5"	OK 2009/05/22
Barracuda 7200.12	ST3750528AS	SATA 3.0Gb/s	750	7200	32	2.01.09	3.5"	OK 2009/05/22
Barracuda 7200.12	ST3500418AS	SATA 3.0Gb/s	500	7200	16	2.01.09	3.5"	OK 2009/05/22
Barracuda 7200.12	ST3500410AS	SATA 3.0Gb/s	500	7200	16	2.01.09	3.5"	OK 2009/05/22
Barracuda 7200.12	ST3320418AS	SATA 3.0Gb/s	320	7200	16	2.01.09	3.5"	OK 2009/05/22
Barracuda 7200.12	ST3250318AS	SATA 3.0Gb/s	250	7200	8	2.01.09	3.5"	OK 2009/05/22
Barracuda 7200.12	ST3160318AS	SATA 3.0Gb/s	160	7200	8	2.01.09	3.5"	OK 2009/05/22
Barracuda 7200.11	ST31500341AS	SATA 3.0Gb/s	1500	7200	32	2.01.07	3.5"	OK 2008/12/19
Barracuda 7200.11	ST31000340AS	SATA 3.0 Gb/s	1000	7200	32	2.01.04	3.5"	OK 2008/11/17
Barracuda 7200.11	ST31000333AS	SATA 3.0 Gb/s	1000	7200	32	2.01.04	3.5"	OK 2008/11/17
Barracuda 7200.11	ST3750330AS	SATA 3.0 Gb/s	750	7200	32	2.01.04	3.5"	OK 2008/11/17
Barracuda 7200.11	ST3640323AS	SATA 3.0 Gb/s	640	7200	32	2.01.04	3.5"	OK 2008/11/17
Barracuda 7200.11	ST3500320AS	SATA 3.0 Gb/s	500	7200	32	2.01.04	3.5"	OK 2008/11/17
Barracuda 7200.11	ST3320613AS	SATA 3.0 Gb/s	320	7200	16	2.01.04	3.5"	OK 2008/11/17



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Barracuda 7200.10	ST3750640AS	SATA 3.0Gb/s	750	7200	16	2.01.04	3.5"	OK 2008/11/10
Barracuda 7200.10	ST3500630AS	SATA 3.0Gb/s	500	7200	16	2.01.04	3.5"	OK 2008/11/10
Barracuda 7200.10	ST3400620AS	SATA 3.0Gb/s	400	7200	16	2.01.04	3.5"	OK 2008/11/10
Barracuda 7200.10	ST3320620AS	SATA 3.0Gb/s	320	7200	16	2.01.04	3.5"	OK 2008/11/10
Barracuda 7200.10	ST3250620AS	SATA 3.0Gb/s	250	7200	16	2.01.04	3.5"	OK 2008/11/10
Barracuda 7200.10	ST3250410AS	SATA 3.0Gb/s	250	7200	16	2.01.04	3.5"	OK 2008/11/10

### 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 2011/08/03
SpinPoint F1	HD103UJ	SATA 3.0Gb/s	1000	7200	32	2.01.09	3.5"	OK 2009/05/22

### Western Digital

Series	Model	Interface	Capacity (GB)	Rotational Speed (RPM)	Buffer Size (MB)	NAS Firmware	Form Factor	Recently Updated *
WD Caviar Black	WD1502FAEX	SATA 6.0Gb/s	1500	7200	64	5.01.04	3.5"	OK 2011/06/29
WD Caviar Blue	WD10EALX	SATA 6.0Gb/s	1000	7200	32	3.04.03	3.5"	OK 2010/12/10
WD Caviar Blue	WD10EALS	SATA 3.0Gb/s	1000	7200	32	3.04.03	3.5"	OK 2010/09/02
WD Caviar Blue	WD5000KS	SATA 3.0Gb/s	500	7200	16	2.01.04	3.5"	OK 2008/11/10
WD Caviar Blue	WD4000KS	SATA 3.0Gb/s	400	7200	16	2.01.04	3.5"	OK 2008/11/10
WD Caviar Green	WD20EADS	SATA 3.0Gb/s	2000	IntelliPower™	32	2.01.07	3.5"	OK 2009/05/13
WD Caviar Green	WD15EADS	SATA 3.0Gb/s	1500	IntelliPower™	32	2.01.07	3.5"	OK 2009/05/13
WD Caviar Green	WD10EADS	SATA 3.0Gb/s	1000	IntelliPower™	32	2.01.07	3.5"	OK 2009/05/13
WD Caviar SE	WD1600AAJS	SATA 3.0Gb/s	160	7200	8	2.01.04	3.5"	OK 2008/11/10

### 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/wdproducts/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) 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.