



M3800 HDD Compatibilit 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 A7K1000	HUA721010KLA330	SATA 3.0Gb/s	1000	7200	32	1.07.00.1	3.5"	OK 2010/11/01	
Ultrastar A7K1000	HUA721075KLA330	SATA 3.0Gb/s	750	7200	32	1.07.00.1	3.5"	OK 2010/11/01	
Ultrastar A7K1000	HUA721050KLA330	SATA 3.0Gb/s	500	7200	32	1.07.00.1	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	1.00.02	3.5"	OK 2008/11/10	
Barracuda ES.2	ST3750330NS	SATA 3.0Gb/s	750	7200	32	1.00.02	3.5"	OK 2008/11/10	
Barracuda ES.2	ST3500320NS	SATA 3.0Gb/s	500	7200	32	1.00.02	3.5"	OK 2008/11/10	
Barracuda ES.2	ST3250310NS	SATA 3.0Gb/s	250	7200	32	1.00.02	3.5"	OK 2008/11/10	
Barracuda ES	ST3750640NS	SATA 3.0Gb/s	750	7200	16	1.00.02	3.5"	OK 2008/11/10	
Barracuda ES	ST3500630NS	SATA 3.0Gb/s	500	7200	16	1.00.02	3.5"	OK 2008/11/10	
Barracuda ES	ST3400620NS	SATA 3.0Gb/s	400	7200	16	1.00.02	3.5"	OK 2008/11/10	
Barracuda ES	ST3250620NS	SATA 3.0Gb/s	250	7200	16	1.00.02	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 RE2	WD5000YS	SATA 3.0Gb/s	500	7200	16	1.00.02	3.5"	OK 2008/11/10	
WD RE2	WD4000YS	SATA 3.0Gb/s	400	7200	16	1.00.02	3.5"	OK 2008/11/10	
WD RE2	WD3200YS	SATA 3.0Gb/s	320	7200	16	1.00.02	3.5"	OK 2008/11/10	
WD RE2	WD2500YS	SATA 3.0Gb/s	250	7200	16	1.00.02	3.5"	OK 2008/11/10	
WD RE4	WD1003FBYX	SATA 3.0Gb/s	1000	7200	64	1.07.00.1	3.5"	OK 2010/06/15	
WD RE4	WD5003ABYX	SATA 3.0Gb/s	500	7200	64	1.07.00.1	3.5"	OK 2010/06/15	
WD Raptor	WD360GD	SATA 1.5Gb/s	36.7	10000	8	1.00.02	3.5"	OK 2008/11/10	



M3800 HDD Compatibilit 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 7K2000	HDS722020ALA330	SATA 3.0Gb/s	2000	7200	32	1.07.00.1	3.5"	OK 2009/09/06	
Deskstar E7K1000	HDE721010SLA330	SATA 3.0 Gb/s	1000	7200	32	1.07.00.1	3.5"	OK 2009/03/23	
Deskstar E7K1000	HDE721075SLA330	SATA 3.0 Gb/s	750	7200	32	1.07.00.1	3.5"	OK 2009/03/23	
Deskstar E7K1000	HDE721050SLA330	SATA 3.0 Gb/s	500	7200	32	1.07.00.1	3.5"	OK 2009/03/23	
Deskstar 7K1000.C	HDS721010CLA332	SATA 3.0Gb/s	1000	7200	32	1.07.00.1	3.5"	OK 2009/12/22	
Deskstar 7K1000.C	HDS721075CLA332	SATA 3.0Gb/s	750	7200	32	1.07.00.1	3.5"	OK 2009/12/22	
Deskstar 7K1000.C	HDS721064CLA332	SATA 3.0Gb/s	640	7200	32	1.07.00.1	3.5"	OK 2009/12/22	
Deskstar 7K1000.C	HDS721050CLA362	SATA 3.0Gb/s	500	7200	16	1.07.00.1	3.5"	OK 2009/12/22	
Deskstar 7K1000.C	HDS721032CLA362	SATA 3.0Gb/s	320	7200	16	1.07.00.1	3.5"	OK 2009/12/22	
Deskstar 7K1000.C	HDS721025CLA382	SATA 3.0Gb/s	250	7200	8	1.07.00.1	3.5"	OK 2009/12/22	
Deskstar 7K1000.C	HDS721016CLA382	SATA 3.0Gb/s	160	7200	8	1.07.00.1	3.5"	OK 2009/12/22	
Deskstar 7K1000.B	HDT721010SLA360	SATA 3.0Gb/s	1000	7200	16	1.07.00.1	3.5"	OK 2009/05/22	
Deskstar 7K1000.B	HDT721075SLA360	SATA 3.0Gb/s	750	7200	16	1.07.00.1	3.5"	OK 2009/05/22	
Deskstar 7K1000.B	HDT721064SLA360	SATA 3.0Gb/s	640	7200	16	1.07.00.1	3.5"	OK 2009/05/22	
Deskstar 7K1000.B	HDT721050SLA360	SATA 3.0Gb/s	500	7200	16	1.07.00.1	3.5"	OK 2009/05/22	
Deskstar 7K1000.B	HDT721032SLA360	SATA 3.0Gb/s	320	7200	16	1.07.00.1	3.5"	OK 2009/05/22	
Deskstar 7K1000.B	HDT721025SLA380	SATA 3.0Gb/s	250	7200	8	1.07.00.1	3.5"	OK 2009/05/22	
Deskstar 7K1000.B	HDT721016SLA380	SATA 3.0Gb/s	160	7200	8	1.07.00.1	3.5"	OK 2009/05/22	
Deskstar 7K1000	HDS721010KLA330	SATA 3.0 Gb/s	1000	7200	32	1.00.02	3.5"	OK 2008/11/10	
Deskstar 7K1000	HDS721075KLA330	SATA 3.0 Gb/s	750	7200	32	1.00.02	3.5"	OK 2008/11/10	
Deskstar 5K1000	HDS5C1010CLA382	SATA 3.0Gb/s	1000	CoolSpin	8	1.07.00.1	3.5"	OK 2010/11/01	
Deskstar 5K1000	HDS5C1050CLA382	SATA 3.0Gb/s	500	CoolSpin	8	1.07.00.1	3.5"	OK 2010/11/01	



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Seagate								
Series	Model	Interface	Capacity (GB)	Rotational Speed (RPM)	Buffer Size (MB)	NAS Firmware	Form Factor	Recently Updated *
Barracuda LP	ST32000542AS	SATA 3.0Gb/s	2000	5900	32	1.07.00.1	3.5"	OK 2010/05/31
Barracuda LP	ST31500541AS	SATA 3.0Gb/s	1500	5900	32	1.07.00.1	3.5"	OK 2010/05/31
Barracuda LP	ST31000520AS	SATA 3.0Gb/s	1000	5900	32	1.07.00.1	3.5"	OK 2010/05/31
Barracuda 7200.12	ST31000528AS	SATA 3.0Gb/s	1000	7200	32	1.07.00.1	3.5"	OK 2009/05/22
Barracuda 7200.12	ST3750528AS	SATA 3.0Gb/s	750	7200	32	1.07.00.1	3.5"	OK 2009/05/22
Barracuda 7200.12	ST3500418AS	SATA 3.0Gb/s	500	7200	16	1.07.00.1	3.5"	OK 2009/05/22
Barracuda 7200.12	ST3500410AS	SATA 3.0Gb/s	500	7200	16	1.07.00.1	3.5"	OK 2009/05/22
Barracuda 7200.12	ST3320418AS	SATA 3.0Gb/s	320	7200	16	1.07.00.1	3.5"	OK 2009/05/22
Barracuda 7200.12	ST3250318AS	SATA 3.0Gb/s	250	7200	8	1.07.00.1	3.5"	OK 2009/05/22
Barracuda 7200.12	ST3160318AS	SATA 3.0Gb/s	160	7200	8	1.07.00.1	3.5"	OK 2009/05/22
Barracuda 7200.11	ST31500341AS	SATA 3.0Gb/s	1500	7200	32	1.00.02	3.5"	OK 2008/12/19
Barracuda 7200.11	ST31000340AS	SATA 3.0 Gb/s	1000	7200	32	1.00.02	3.5"	OK 2008/11/17
Barracuda 7200.11	ST31000333AS	SATA 3.0 Gb/s	1000	7200	32	1.00.02	3.5"	OK 2008/11/17
Barracuda 7200.11	ST3750330AS	SATA 3.0 Gb/s	750	7200	32	1.00.02	3.5"	OK 2008/11/17
Barracuda 7200.11	ST3640323AS	SATA 3.0 Gb/s	640	7200	32	1.00.02	3.5"	OK 2008/11/17
Barracuda 7200.11	ST3500320AS	SATA 3.0 Gb/s	500	7200	32	1.00.02	3.5"	OK 2008/11/17
Barracuda 7200.11	ST3320613AS	SATA 3.0 Gb/s	320	7200	16	1.00.02	3.5"	OK 2008/11/17
Barracuda 7200.10	ST3750640AS	SATA 3.0Gb/s	750	7200	16	1.00.02	3.5"	OK 2008/11/10
Barracuda 7200.10	ST3500630AS	SATA 3.0Gb/s	500	7200	16	1.00.02	3.5"	OK 2008/11/10
Barracuda 7200.10	ST3400620AS	SATA 3.0Gb/s	400	7200	16	1.00.02	3.5"	OK 2008/11/10
Barracuda 7200.10	ST3320620AS	SATA 3.0Gb/s	320	7200	16	1.00.02	3.5"	OK 2008/11/10
Barracuda 7200.10	ST3250620AS	SATA 3.0Gb/s	250	7200	16	1.00.02	3.5"	OK 2008/11/10
Barracuda 7200.10	ST3250410AS	SATA 3.0Gb/s	250	7200	16	1.00.02	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 F1	HD103UJ	SATA 3.0Gb/s	1000	7200	32	1.07.00.1	3.5"	OK 2009/05/22



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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	3.00.03	3.5"	* OK 2012/03/20 (*8)
WD Caviar Black	WD1502FAEX	SATA 6.0Gb/s	1500	7200	64	3.00.02	3.5"	* OK 2012/03/20 (*8)
WD Caviar Black	WD1002FAEX	SATA 6.0Gb/s	1000	7200	64	3.00.03	3.5"	* OK 2012/03/20 (*8)
WD Caviar Blue	WD10EALX	SATA 6.0Gb/s	1000	7200	32	1.07.00.1	3.5"	OK 2010/12/10 (*8)
WD Caviar Blue	WD10EALS	SATA 3.0Gb/s	1000	7200	32	1.07.00.1	3.5"	OK 2010/09/02 (*8)
WD Caviar Blue	WD5000KS	SATA 3.0Gb/s	500	7200	16	1.00.02	3.5"	OK 2008/11/10 (*8)
WD Caviar Blue	WD4000KS	SATA 3.0Gb/s	400	7200	16	1.00.02	3.5"	OK 2008/11/10 (*8)
WD Caviar Green	WD20EADS	SATA 3.0Gb/s	2000	IntelliPower™	32	1.07.00.1	3.5"	OK 2009/05/13 (*8)
WD Caviar Green	WD15EADS	SATA 3.0Gb/s	1500	IntelliPower™	32	1.07.00.1	3.5"	OK 2009/05/13 (*8)
WD Caviar Green	WD10EADS	SATA 3.0Gb/s	1000	IntelliPower™	32	1.07.00.1	3.5"	OK 2009/05/13 (*8)
WD Caviar SE	WD1600AAJS	SATA 3.0Gb/s	160	7200	8	1.00.02	3.5"	OK 2008/11/10 (*8)

Not recommended	
Environment:	Not recommended for RAID environment
Availability:	Not recommended for RAID environment
Reliability:	Not recommended for RAID environment

Western Digital								
Series	Model	Interface	Capacity (GB)	Rotational Speed (RPM)	Buffer Size (MB)	NAS Firmware	Form Factor	Recently Updated *
WD Caviar Black	WD6402AAEX	SATA 6.0Gb/s	640	7200	64	-	3.5"	Not recommend (*9)
WD Caviar Black	WD2001FASS	SATA 3.0Gb/s	2000	7200	64	-	3.5"	Not recommend (*9)
WD Caviar Blue	WD7500AALX	SATA 6.0Gb/s	750	7200	32	-	3.5"	Not recommend (*9)
WD Caviar Blue	WD5000AAKX	SATA 6.0Gb/s	500	7200	16	-	3.5"	Not recommend (*9)
WD Caviar Green	WD20EARS	SATA 3.0Gb/s	2000	IntelliPower™	64	-	3.5"	Not recommend (*9)
WD Caviar Green	WD15EARS	SATA 3.0Gb/s	1500	IntelliPower™	64	-	3.5"	Not recommend (*9)
WD Caviar Green	WD10EARS	SATA 3.0Gb/s	1000	IntelliPower™	64	-	3.5"	Not recommend (*9)
WD 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
 - 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. Notice that firmware v1.07.00.1 may let the OSD be unavailable, please consider about this before upgrading to v1.07.00.1.
7. The XFS File System has a limitation of 16TB per volume.
8. 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
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