



N2310 N4310 HDD/SSD Compatibility List

Enterprise:	(note 2)
Environment:	Business critical
Availability:	High
Reliability:	High

HGST

Series	Model	Interface	Capacity (GB)	Rotational Speed (RPM)	Buffer Size (MB)	NAS Firmware	Form Factor	Recently Updated *
Deskstar NAS	HDN724040ALE640	SATA 6.0Gb/s	4000	7200	64	initial.	3.5"	OK 2014/05/20
Deskstar NAS	HDN724030ALE640	SATA 6.0Gb/s	3000	7200	64	initial.	3.5"	OK 2014/05/20
Deskstar NAS	HDN726060ALE610	SATA 6.0Gb/s	6000	7200	128	OS6.build_770	3.5"	OK 2014/12/02
Deskstar NAS	HDN726050ALE610	SATA 6.0Gb/s	5000	7200	128	OS6.build_770	3.5"	OK 2014/12/02

Plextor SSD

Series	Model	Interface	Capacity (GB)	Rotational Speed (RPM)	Buffer Size (MB)	NAS Firmware	Form Factor	Recently Updated *
M5 Pro	PX-512M5	SATA 6.0Gb/s	512	SSD	768	initial.	2.5"	OK 2014/05/20
M5 Pro	PX-256M5	SATA 6.0Gb/s	256	SSD	512	initial.	2.5"	OK 2014/05/20
M5 Pro	PX-128M5	SATA 6.0Gb/s	128	SSD	256	initial.	2.5"	OK 2014/05/20

Intel SSD

Series	Model	Interface	Capacity (GB)	Rotational Speed (RPM)	Buffer Size (MB)	NAS Firmware	Form Factor	Recently Updated *
S3500 Series	SSDSC2BB800	SATA 6.0Gb/s	800	SSD	-	initial.	2.5"	OK 2014/05/20
S3500 Series	SSDSC2BB600	SATA 6.0Gb/s	600	SSD	-	initial.	2.5"	OK 2014/05/20
S3500 Series	SSDSC2BB480	SATA 6.0Gb/s	480	SSD	-	initial.	2.5"	OK 2014/05/20
S3500 Series	SSDSC2BB300	SATA 6.0Gb/s	320	SSD	-	initial.	2.5"	OK 2014/05/20
S3500 Series	SSDSC2BB240	SATA 6.0Gb/s	240	SSD	-	initial.	2.5"	OK 2014/05/20
S3500 Series	SSDSC2BB160	SATA 6.0Gb/s	160	SSD	-	initial.	2.5"	OK 2014/05/20
S3500 Series	SSDSC2BB120	SATA 6.0Gb/s	120	SSD	-	initial.	2.5"	OK 2014/05/20
S3500 Series	SSDSC2BB80	SATA 6.0Gb/s	80	SSD	-	initial.	2.5"	OK 2014/05/20



N2310 N4310 HDD/SSD Compatibility List

Seagate									
Series	Model	Interface	Capacity (GB)	Rotational Speed (RPM)	Buffer Size (MB)	NAS Firmware	Form Factor	Recently Updated *	
Constellation ES.3	ST6000NM0024	SATA 6.0Gb/s	6000	7200	128	initial.	3.5"	OK 2014/05/20 (12)	
Constellation ES.3	ST5000NM0024	SATA 6.0Gb/s	5000	7200	128	initial.	3.5"	OK 2014/05/20	
Constellation ES.3	ST4000NM0024	SATA 6.0Gb/s	4000	7200	128	initial.	3.5"	OK 2014/05/20	
Constellation ES.3	ST2000NM0024	SATA 6.0Gb/s	2000	7200	128	initial.	3.5"	OK 2014/05/20	
Constellation ES.3	ST4000NM0033	SATA 6.0Gb/s	4000	7200	128	OS6.build_769	3.5"	OK 2014/10/01	
Constellation ES.3	ST3000NM0033	SATA 6.0Gb/s	3000	7200	128	OS6.build_769	3.5"	OK 2014/10/01	
Constellation ES.3	ST2000NM0033	SATA 6.0Gb/s	2000	7200	128	OS6.build_769	3.5"	OK 2014/10/01	
Constellation ES.3	ST1000NM0033	SATA 6.0Gb/s	1000	7200	128	OS6.build_769	3.5"	OK 2014/10/01	
Terascale HDD	ST4000NC001	SATA 6.0Gb/s	4000	5900	64	initial.	3.5"	OK 2014/05/20	
Terascale HDD	ST4000NC000	SATA 6.0Gb/s	4000	5900	64	initial.	3.5"	OK 2014/05/20	

Toshiba									
Series	Model	Interface	Capacity (GB)	Rotational Speed (RPM)	Buffer Size (MB)	NAS Firmware	Form Factor	Recently Updated *	
MC04	MC04ACA500E	SATA 6.0Gb/s	5000	7200	128	initial.	3.5"	OK 2014/05/20	
MC04	MC04ACA400E	SATA 6.0Gb/s	4000	7200	128	initial.	3.5"	OK 2014/05/20	
MC04	MC04ACA300E	SATA 6.0Gb/s	3000	7200	128	initial.	3.5"	OK 2014/05/20	
MC04	MC04ACA200E	SATA 6.0Gb/s	2000	7200	128	initial.	3.5"	OK 2014/05/20	
MG04ACAxxxE	MG04ACA500E	SATA 6.0Gb/s	5000	7200	128	OS6.build_770	3.5"	OK 2014/10/09	
MG04ACAxxxE	MG04ACA400E	SATA 6.0Gb/s	4000	7200	128	OS6.build_770	3.5"	OK 2014/10/09	
MG04ACAxxxE	MG04ACA300E	SATA 6.0Gb/s	3000	7200	128	OS6.build_770	3.5"	OK 2014/10/09	
MG04ACAxxxE	MG04ACA200E	SATA 6.0Gb/s	2000	7200	128	OS6.build_770	3.5"	OK 2014/10/09	
MG03	MG03ACA400	SATA 6.0Gb/s	4000	7200	64	OS6.build_743	3.5"	OK 2014/06/27	
MG03	MG03ACA300	SATA 6.0Gb/s	3000	7200	64	OS6.build_743	3.5"	OK 2014/06/27	
MG03	MG03ACA200	SATA 6.0Gb/s	2000	7200	64	OS6.build_743	3.5"	OK 2014/06/27	
MG03	MG03ACA100	SATA 6.0Gb/s	1000	7200	64	OS6.build_743	3.5"	OK 2014/06/27	
MD03	MD03ACA400V	SATA 6.0Gb/s	4000	7200	64	initial.	3.5"	OK 2014/05/20	
MD03	MD03ACA300V	SATA 6.0Gb/s	3000	7200	64	initial.	3.5"	OK 2014/05/20	
MD03	MD03ACA200V	SATA 6.0Gb/s	2000	7200	64	initial.	3.5"	OK 2014/05/20	
MD03	MD03ACA100V	SATA 6.0Gb/s	1000	7200	64	initial.	3.5"	OK 2014/05/20	



N2310 N4310 HDD/SSD Compatibility List

Western Digital

Series	Model	Interface	Capacity (GB)	Rotational Speed (RPM)	Buffer Size (MB)	NAS Firmware	Form Factor	Recently Updated *
WD PRO	WD4001FFSX	SATA 6.0Gb/s	4000	7200	64	OS6.build_768	3.5"	OK 2014/07/21
WD PRO	WD3001FFSX	SATA 6.0Gb/s	4000	7200	64	OS6.build_768	3.5"	OK 2014/07/21
WD PRO	WD2001FFSX	SATA 6.0Gb/s	4000	7200	64	OS6.build_768	3.5"	OK 2014/07/21
WD SE	WD4000F9YZ	SATA 6.0Gb/s	4000	7200	64	initial.	3.5"	OK 2014/05/20
WD SE	WD3000F9YZ	SATA 6.0Gb/s	3000	7200	64	initial.	3.5"	OK 2014/05/20
WD SE	WD2000F9YZ	SATA 6.0Gb/s	2000	7200	64	initial.	3.5"	OK 2014/05/20
WD SE	WD1002F9YZ	SATA 6.0Gb/s	1000	7200	128	initial.	3.5"	OK 2014/05/20



N2310 N4310 HDD/SSD Compatibility List

Consumer:	(note 2)
Environment:	Small office / Home
Availability:	Moderate
Reliability:	Moderate

Samsung SSD

Series	Model	Interface	Capacity (GB)	Rotational Speed (RPM)	Buffer Size (MB)	NAS Firmware	Form Factor	Recently Updated *
SSD 850 PRO	MZ-7KE128	SATA 6.0Gb/s	128	-	-	OS6.build_770	2.5"	OK 2014/12/16
SSD 850 PRO	MZ-7KE256	SATA 6.0Gb/s	256	-	-	OS6.build_770	2.5"	OK 2014/12/16
SSD 850 PRO	MZ-7KE512	SATA 6.0Gb/s	512	-	-	OS6.build_770	2.5"	OK 2014/12/16
SSD 850 PRO	MZ-7KE1T0	SATA 6.0Gb/s	1000	-	-	OS6.build_770	2.5"	OK 2014/12/16

HGST

Series	Model	Interface	Capacity (GB)	Rotational Speed (RPM)	Buffer Size (MB)	NAS Firmware	Form Factor	Recently Updated *
Travelstar 5K1000	HTS541010A9E680	SATA 6.0Gb/s	1000	5400	8	initial.	2.5"	OK 2014/05/20
Travelstar 5K1000	HTS541075A9E680	SATA 6.0Gb/s	750	5400	8	initial.	2.5"	OK 2014/05/20
Travelstar 5K1000	HTS541064A9E680	SATA 6.0Gb/s	640	5400	8	initial.	2.5"	OK 2014/05/20
Travelstar 5K1000	HTS541515A9E630	SATA 6.0Gb/s	1500	5400	32	initial.	2.5"	OK 2014/05/20

Seagate

Series	Model	Interface	Capacity (GB)	Rotational Speed (RPM)	Buffer Size (MB)	NAS Firmware	Form Factor	Recently Updated *
Video HDD	ST4000VM000	SATA 6.0Gb/s	4000	5900	64	initial.	3.5"	OK 2014/05/20
Video HDD	ST3000VM002	SATA 6.0Gb/s	3000	5900	64	initial.	3.5"	OK 2014/05/20
Video HDD	ST2000VM003	SATA 6.0Gb/s	2000	5900	64	initial.	3.5"	OK 2014/05/26
Video HDD	ST1000VM002	SATA 6.0Gb/s	1000	5900	64	initial.	3.5"	OK 2014/05/20
Surveillance HDD	ST3000VX006	SATA 6.0Gb/s	3000	5900	64	OS6.build_770	3.5"	* OK 2015/01/05
Surveillance HDD	ST3000VX005	SATA 6.0Gb/s	3000	5900	64	OS6.build_770	3.5"	* OK 2015/01/05
Surveillance HDD	ST2000VX003	SATA 6.0Gb/s	2000	5900	64	OS6.build_770	3.5"	* OK 2015/01/05
Surveillance HDD	ST2000VX005	SATA 6.0Gb/s	2000	5900	64	OS6.build_770	3.5"	* OK 2015/01/05
Surveillance HDD	ST1000VX001	SATA 6.0Gb/s	1000	5900	64	OS6.build_770	3.5"	* OK 2015/01/05
Surveillance HDD	ST1000VX003	SATA 6.0Gb/s	2000	5900	64	OS6.build_770	3.5"	* OK 2015/01/05
NAS HDD	ST4000VN000	SATA 6.0Gb/s	4000	5900	64	initial.	3.5"	OK 2014/06/11
NAS HDD	ST3000VN000	SATA 6.0Gb/s	3000	5900	64	OS6.build_768	3.5"	OK 2014/08/22



N2310 N4310 HDD/SSD Compatibility List

NAS HDD	ST2000VN000	SATA 6.0Gb/s	2000	5900	64	OS6.build_768	3.5"	OK 2014/08/22
NAS HDD	ST4000VN003	SATA 6.0Gb/s	4000	5900	64	OS6.build_770	3.5"	OK 2014/12/02
NAS HDD	ST2000VN001	SATA 6.0Gb/s	2000	5900	64	OS6.build_770	3.5"	OK 2014/12/02

Toshiba

Series	Model	Interface	Capacity (GB)	Rotational Speed (RPM)	Buffer Size (MB)	NAS Firmware	Form Factor	Recently Updated *
MKxx59GXP	MK6459GSX	SATA 3.0Gb/s	640	5400	8	initial.	2.5"	OK 2014/05/20
MKxx59GXP	MK5059GSX	SATA 3.0Gb/s	500	5400	8	initial.	2.5"	OK 2014/05/20
MKxx59GXP	MK3259GSX	SATA 3.0Gb/s	320	5400	8	initial.	2.5"	OK 2014/05/20
MKxx59GXP	MK2559GSX	SATA 3.0Gb/s	250	5400	8	initial.	2.5"	OK 2014/05/20
MKxx59GXP	MK1659GSX	SATA 3.0Gb/s	160	5400	8	initial.	2.5"	OK 2014/05/20
Desktop HDD	DT01ACA300	SATA 6.0Gb/s	3000	7200	64	initial.	3.5"	OK 2014/10/08
Desktop HDD	DT01ACA200	SATA 6.0Gb/s	2000	7200	64	OS6.build_770		OK 2014/10/08
Desktop HDD	DT01ACA100	SATA 6.0Gb/s	1000	7200	32	OS6.build_770		OK 2014/10/08
Desktop HDD	DT01ACA020	SATA 6.0Gb/s	500	7200	32	OS6.build_770		OK 2014/10/08

Western Digital

Series	Model	Interface	Capacity (GB)	Rotational Speed (RPM)	Buffer Size (MB)	NAS Firmware	Form Factor	Recently Updated *
WD RED RM500	WD7500BFCX	SATA 6.0Gb/s	750	IntelliPower™	16	initial.	2.5"	OK 2013/12/27
WD RED RM500	WD10JFCX	SATA 6.0Gb/s	1000	IntelliPower™	16	initial.	2.5"	OK 2014/05/20
WD Red	WD60EFRX	SATA 6.0Gb/s	6000	IntelliPower™	64	OS6.build_768	3.5"	OK 2014/09/29(*11*13)
WD Red	WD50EFRX	SATA 6.0Gb/s	5000	IntelliPower™	64	OS6.build_768	3.5"	OK 2014/09/29(*11*13)
WD Red	WD40EFRX	SATA 6.0Gb/s	4000	IntelliPower™	64	initial.	3.5"	OK 2014/05/20(*10)
WD Red	WD30EFRX	SATA 6.0Gb/s	3000	IntelliPower™	64	initial.	3.5"	OK 2014/05/20(*10)
WD Red	WD20EFRX	SATA 6.0Gb/s	2000	IntelliPower™	64	initial.	3.5"	OK 2014/05/20(*10)
WD Red	WD10EFRX	SATA 6.0Gb/s	1000	IntelliPower™	64	initial.	3.5"	OK 2014/05/20(*10)
WD Purple	WD60PURX	SATA 6.0Gb/s	6000	IntelliPower	64	OS6.build_770	3.5"	OK 2014/10/13
WD Purple	WD40PURX	SATA 6.0Gb/s	4000	IntelliPower	64	OS6.build_770	3.5"	OK 2014/10/13
WD Purple	WD30PURX	SATA 6.0Gb/s	3000	IntelliPower	64	OS6.build_770	3.5"	OK 2014/10/13
WD Purple	WD20PURX	SATA 6.0Gb/s	2000	IntelliPower	64	OS6.build_770	3.5"	OK 2014/10/13
WD Purple	WD10PURX	SATA 6.0Gb/s	1000	IntelliPower	64	OS6.build_770	3.5"	OK 2014/10/13



N2310 N4310 HDD/SSD Compatibility List

Crucial SSD

Series	Model	Interface	Capacity (GB)	Rotational Speed (RPM)	Buffer Size (MB)	NAS Firmware	Form Factor	Recently Updated *
MX100	CT512MX100SSD1	SATA 6.0Gb/s	512	-	-	OS6.build_770	2.5"	OK 2014/10/07
MX100	CT256MX100SSD1	SATA 6.0Gb/s	256	-	-	OS6.build_770	2.5"	OK 2014/10/07
MX100	CT128MX100SSD1	SATA 6.0Gb/s	128	-	-	OS6.build_770	2.5"	OK 2014/10/07



N2310 N4310 HDD/SSD Compatibility List

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 Black	WD1002FAEX	SATA 6.0Gb/s	1000	7200	64	-	3.5"	Not recommend (*8)
WD Black	WD6402AAEX	SATA 6.0Gb/s	640	7200	64	-	3.5"	Not recommend (*8)
WD Black	WD2001FASS	SATA 3.0Gb/s	2000	7200	64	-	3.5"	Not recommend (*8)
WD Green	WD20EARS	SATA 3.0Gb/s	2000	IntelliPower™	64	-	3.5"	Not recommend (*8)
WD Green	WD15EARS	SATA 3.0Gb/s	1500	IntelliPower™	64	-	3.5"	Not recommend (*8)
WD Green	WD10EARS	SATA 3.0Gb/s	1000	IntelliPower™	64	-	3.5"	Not recommend (*8)
AV-GP	WD20EVDS	SATA 3.0Gb/s	2000	IntelliPower™	32	-	3.5"	Not recommend (*8)
WD Blue	WD5000AAKS	SATA 3.0Gb/s	500	7200	16	initial.	3.5"	Not recommend (*8)

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	initial.	3.5"	Not recommend (*8)
EcoGreen F2	HD103SI	SATA 3.0Gb/s	1000	5400	32	initial.	3.5"	Not recommend (*8)



N2310 N4310 HDD/SSD 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) 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 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
8. 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
9. For Seagate ST3000DM001, ST2000DM001, ST1500DM003 & ST1000DM003 series with part number 9YN16x, please confirm the HDD firmware been updated or
http://knowledge.seagate.com/articles/en_US/FAQ/223651en
https://apps1.seagate.com/downloads/request.html?userPreferredLocaleCookie=en_US_
10. WD Red Netowrk Hard Drive is designed for consumer RAID products (1~5 bays).
11. 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
12. 6TB drives have been designed with new screw hole placements but are still compatible with current HDD trays.
Please contact your local distributor or Thecus Support directly for more information.
13. The screw depth is 4mm.