



# N5810PRO HDD/SSD Compatibility List

<b>Enterprise:</b>	(note 2)
<b>Environment:</b>	Business critical
<b>Availability:</b>	High
<b>Reliability:</b>	High

<b>HGST</b>								
Series	Model	Interface	Capacity (GB)	Rotational Speed (RPM)	Buffer Size (MB)	NAS Firmware	Form Factor	Recently Updated *
HGST He8	HUH728080ALE600	SATA 6.0Gb/s	8000	7200	128	2.05.07a.bt	3.5"	OK 2015/03/02
HGST He8	HUH728060ALE600	SATA 6.0Gb/s	6000	7200	128	2.05.07a.bt	3.5"	OK 2015/03/02
MegaScale 4000	HMS5C4040ALE640	SATA 6.0Gb/s	4000	CoolSpin	64	2.05.07a.bt	3.5"	OK 2015/03/02
HGST 7K6000	HUS726060ALE610	SATA 6.0Gb/s	6000	7200	128	2.05.08	3.5"	OK 2015/05/20
HGST 7K6000	HUS726050ALE610	SATA 6.0Gb/s	5000	7200	128	2.05.08	3.5"	OK 2015/05/20
HGST 7K6000	HUS726040ALE610	SATA 6.0Gb/s	4000	7200	128	2.05.08	3.5"	OK 2015/05/20
HGST 7K6000	HUS726020ALE610	SATA 6.0Gb/s	2000	7200	128	2.05.08	3.5"	OK 2015/05/20

<b>Seagate</b>								
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	2.05.07a.bt	3.5"	OK 2015/03/02
Constellation ES.3	ST5000NM0024	SATA 6.0Gb/s	5000	7200	128	2.05.07a.bt	3.5"	OK 2015/03/02
Constellation ES.3	ST4000NM0024	SATA 6.0Gb/s	4000	7200	128	2.05.07a.bt	3.5"	OK 2015/03/02
Constellation ES.3	ST2000NM0024	SATA 6.0Gb/s	2000	7200	128	2.05.07a.bt	3.5"	OK 2015/03/02
Constellation ES.3	ST4000NM0033	SATA 6.0Gb/s	4000	7200	128	2.05.07a.bt	3.5"	OK 2015/03/02
Constellation ES.3	ST3000NM0033	SATA 6.0Gb/s	3000	7200	128	2.05.07a.bt	3.5"	OK 2015/03/02
Constellation ES.3	ST2000NM0033	SATA 6.0Gb/s	2000	7200	128	2.05.07a.bt	3.5"	OK 2015/03/02
Constellation ES.3	ST1000NM0033	SATA 6.0Gb/s	1000	7200	128	2.05.07a.bt	3.5"	OK 2015/03/02
Terascale HDD	ST4000NC001	SATA 6.0Gb/s	4000	5900	64	2.05.07a.bt	3.5"	OK 2015/03/02
Terascale HDD	ST4000NC000	SATA 6.0Gb/s	4000	5900	64	2.05.07a.bt	3.5"	OK 2015/03/02
Enterprise NAS HDD	ST6000VN0001	SATA 6.0Gb/s	6000	7200	128	2.05.07a.bt	3.5"	OK 2015/03/12
Enterprise NAS HDD	ST5000VN0001	SATA 6.0Gb/s	5000	7200	128	2.05.07a.bt	3.5"	OK 2015/03/12
Enterprise NAS HDD	ST4000VN0001	SATA 6.0Gb/s	4000	7200	128	2.05.07a.bt	3.5"	OK 2015/03/12
Enterprise NAS HDD	ST3000VN0001	SATA 6.0Gb/s	3000	7200	128	2.05.07a.bt	3.5"	OK 2015/03/12
Enterprise NAS HDD	ST2000VN0001	SATA 6.0Gb/s	2000	7200	128	2.05.07a.bt	3.5"	OK 2015/03/12

Compatibility not equal to reliability, strongly recommend choose business critical (blue area) enterprise or NAS driver, if NAS operation in the 7x24 condition.

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Enterprise NAS HDD	ST6000VN0011	SATA 6.0Gb/s	6000	7200	128	2.04.06a	3.5"	OK 2015/03/12
Enterprise NAS HDD	ST5000VN0011	SATA 6.0Gb/s	5000	7200	128	2.04.06a	3.5"	OK 2015/03/12
Enterprise NAS HDD	ST4000VN0011	SATA 6.0Gb/s	4000	7200	128	2.04.06a	3.5"	OK 2015/03/12
Enterprise NAS HDD	ST3000VN0011	SATA 6.0Gb/s	3000	7200	128	2.04.06a	3.5"	OK 2015/03/12
Enterprise NAS HDD	ST2000VN0011	SATA 6.0Gb/s	2000	7200	128	2.04.06a	3.5"	OK 2015/03/12
Enterprise HDD	ST8000NM0055	SATA 6.0Gb/s	8000	7200	256	2.05.12	3.5"	OK 2015/09/30 (*12*13)
Enterprise HDD	ST6000NM0065	SATA 6.0Gb/s	6000	7200	256	2.05.12	3.5"	OK 2015/09/30 (*12*13)
Enterprise HDD	ST8000NE0001	SATA 6.0Gb/s	8000	7200	256	2.05.12	3.5"	OK 2015/11/30 (*12*13)
Enterprise HDD	ST8000NE0011	SATA 6.0Gb/s	6000	7200	256	2.05.12	3.5"	OK 2015/11/30 (*12*13)
Enterprise NAS HDD	ST8000VN0002	SATA 6.0Gb/s	8000	7200	256	2.05.12	3.5"	* OK 2015/12/31 (*12*13)
Enterprise NAS HDD	ST8000VN0012	SATA 6.0Gb/s	8000	7200	256	2.05.12	3.5"	* OK 2015/12/31 (*12*13)
Enterprise NAS HDD	ST6000VN0021	SATA 6.0Gb/s	6000	7200	256	2.05.12	3.5"	* OK 2015/12/31 (*12*13)
Enterprise NAS HDD	ST6000VN0031	SATA 6.0Gb/s	6000	7200	256	2.05.12	3.5"	* OK 2015/12/31 (*12*13)
Enterprise NAS HDD	ST4000VN000	SATA 6.0Gb/s	4000	7200	256	2.05.12	3.5"	* OK 2015/12/31
Enterprise NAS HDD	ST4000VN003	SATA 6.0Gb/s	4000	7200	256	2.05.12	3.5"	* OK 2015/12/31
Enterprise NAS HDD	ST3000VN000	SATA 6.0Gb/s	3000	7200	256	2.05.12	3.5"	* OK 2015/12/31
Enterprise NAS HDD	ST2000VN000	SATA 6.0Gb/s	2000	7200	256	2.05.12	3.5"	* OK 2015/12/31
Enterprise NAS HDD	ST2000VN001	SATA 6.0Gb/s	2000	7200	256	2.05.12	3.5"	* OK 2015/12/31



# N5810PRO HDD/SSD Compatibility List

## Toshiba

Series	Model	Interface	Capacity (GB)	Rotational Speed (RPM)	Buffer Size (MB)	NAS Firmware	Form Factor	Recently Updated *
NAS HDD	MC04ACA500E	SATA 6.0Gb/s	5000	7200	128	2.05.07a.bt	3.5"	OK 2015/03/02
NAS HDD	MC04ACA400E	SATA 6.0Gb/s	4000	7200	128	2.05.07a.bt	3.5"	OK 2015/03/02
NAS HDD	MC04ACA300E	SATA 6.0Gb/s	3000	7200	128	2.05.07a.bt	3.5"	OK 2015/03/02
NAS HDD	MC04ACA200E	SATA 6.0Gb/s	2000	7200	128	2.05.07a.bt	3.5"	OK 2015/03/02

## Western Digital

Series	Model	Interface	Capacity (GB)	Rotational Speed (RPM)	Buffer Size (MB)	NAS Firmware	Form Factor	Recently Updated *
WD RED PRO	WD6001FFWX	SATA 6.0Gb/s	6000	7200	128	2.05.08.20140416	3.5"	OK 2015/08/18
WD RED PRO	WD5001FFWX	SATA 6.0Gb/s	5000	7200	128	2.05.08.20140416	3.5"	OK 2015/08/18
WD RED PRO	WD2002FFSX	SATA 6.0Gb/s	2000	7200	64	2.05.12	3.5"	OK 2015/11/13
WD SE	WD4000F9YZ	SATA 6.0Gb/s	4000	7200	64	2.05.07a.bt	3.5"	OK 2015/03/02
WD SE	WD3000F9YZ	SATA 6.0Gb/s	3000	7200	64	2.05.07a.bt	3.5"	OK 2015/03/02
WD SE	WD2000F9YZ	SATA 6.0Gb/s	2000	7200	64	2.05.07a.bt	3.5"	OK 2015/03/02
WD SE	WD1002F9YZ	SATA 6.0Gb/s	1000	7200	128	2.05.07a.bt	3.5"	OK 2015/03/02



# N5810PRO HDD/SSD Compatibility List

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

## 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	2.05.07a.bt	3.5"	OK 2015/03/02
Video HDD	ST3000VM002	SATA 6.0Gb/s	3000	5900	64	2.05.07a.bt	3.5"	OK 2015/03/02
Video HDD	ST2000VM003	SATA 6.0Gb/s	2000	5900	64	2.05.07a.bt	3.5"	OK 2015/03/02
Video HDD	ST1000VM002	SATA 6.0Gb/s	1000	5900	64	2.05.07a.bt	3.5"	OK 2015/03/02
Surveillance HDD	ST3000VX006	SATA 6.0Gb/s	3000	5900	64	2.05.08.bt	3.5"	OK 2015/05/11
Surveillance HDD	ST3000VX005	SATA 6.0Gb/s	3000	5900	64	2.05.08.bt	3.5"	OK 2015/05/11
Surveillance HDD	ST2000VX003	SATA 6.0Gb/s	2000	5900	64	2.05.08.bt	3.5"	OK 2015/05/11
Surveillance HDD	ST2000VX005	SATA 6.0Gb/s	2000	5900	64	2.05.08.bt	3.5"	OK 2015/05/11
Surveillance HDD	ST1000VX001	SATA 6.0Gb/s	1000	5900	64	2.05.08.bt	3.5"	OK 2015/05/11
Surveillance HDD	ST1000VX003	SATA 6.0Gb/s	2000	5900	64	2.05.08.bt	3.5"	OK 2015/05/11
NAS HDD	ST6000VN0021	SATA 6.0Gb/s	6000	7200	128	2.05.12	3.5"	OK 2015/09/30
NAS HDD	ST6000VN0031	SATA 6.0Gb/s	6000	7200	128	2.05.12	3.5"	OK 2015/09/30



# N5810PRO HDD/SSD Compatibility List

Toshiba								
Series	Model	Interface	Capacity (GB)	Rotational Speed (RPM)	Buffer Size (MB)	NAS Firmware	Form Factor	Recently Updated *
DT01ACA	DT01ACA050	SATA 6.0Gb/s	500	7200	32	2.05.07a.bt	3.5"	OK 2015/03/02
DT01ACA	DT01ACA100	SATA 6.0Gb/s	1000	7200	32	2.05.07a.bt	3.5"	OK 2015/03/02
DT01ACA	DT01ACA200	SATA 6.0Gb/s	2000	7200	64	2.05.07a.bt	3.5"	OK 2015/03/02
DT01ACA	DT01ACA300	SATA 6.0Gb/s	3000	7200	64	2.05.07a.bt	3.5"	OK 2015/03/02
Desktop	HDWD130XZSTA	SATA 6.0Gb/s	3000	7200	32	2.03.08	3.5"	OK 2015/11/30
Desktop	HDWD120XZSTA	SATA 6.0Gb/s	2000	7200	32	2.03.08	3.5"	OK 2015/11/30
Desktop	HDWD110XZSTA	SATA 6.0Gb/s	1000	7200	32	2.03.08	3.5"	OK 2015/11/30
Desktop	HDWD105XZSTA	SATA 6.0Gb/s	500	7200	32	2.03.08	3.5"	OK 2015/11/30
Desktop	HDWD130EZSTA	SATA 6.0Gb/s	3000	7200	32	2.03.08	3.5"	OK 2015/11/30
Desktop	HDWD120EZSTA	SATA 6.0Gb/s	2000	7200	32	2.03.08	3.5"	OK 2015/11/30
Desktop	HDWD110EZSTA	SATA 6.0Gb/s	1000	7200	32	2.03.08	3.5"	OK 2015/11/30
Desktop	HDWD105EZSTA	SATA 6.0Gb/s	500	7200	32	2.03.08	3.5"	OK 2015/11/30
Desktop	HDWD130AZSTA	SATA 6.0Gb/s	3000	7200	32	2.03.08	3.5"	OK 2015/11/30
Desktop	HDWD120AZSTA	SATA 6.0Gb/s	2000	7200	32	2.03.08	3.5"	OK 2015/11/30
Desktop	HDWD110AZSTA	SATA 6.0Gb/s	1000	7200	32	2.03.08	3.5"	OK 2015/11/30
Desktop	HDWD105AZSTA	SATA 6.0Gb/s	500	7200	32	2.03.08	3.5"	OK 2015/11/30
Desktop	HDWD130UZSVA	SATA 6.0Gb/s	3000	7200	32	2.03.08	3.5"	OK 2015/11/30
Desktop	HDWD120UZSVA	SATA 6.0Gb/s	2000	7200	32	2.03.08	3.5"	OK 2015/11/30
Desktop	HDWD110UZSVA	SATA 6.0Gb/s	1000	7200	32	2.03.08	3.5"	OK 2015/11/30
Desktop	HDWD105UZSVA	SATA 6.0Gb/s	500	7200	32	2.03.08	3.5"	OK 2015/11/30



# N5810PRO HDD/SSD Compatibility List

## Western Digital

Series	Model	Interface	Capacity (GB)	Rotational Speed (RPM)	Buffer Size (MB)	NAS Firmware	Form Factor	Recently Updated *
WD Red	WD60EFRX	SATA 6.0Gb/s	6000	IntelliPower™	64	2.05.07a.bt	3.5"	OK 2015/03/02
WD Red	WD50EFRX	SATA 6.0Gb/s	5000	IntelliPower™	64	2.05.07a.bt	3.5"	OK 2015/03/02
WD Red	WD40EFRX	SATA 6.0Gb/s	4000	IntelliPower™	64	2.05.07a.bt	3.5"	OK 2015/03/02
WD Red	WD30EFRX	SATA 6.0Gb/s	3000	IntelliPower™	64	2.05.07a.bt	3.5"	OK 2015/03/02
WD Red	WD20EFRX	SATA 6.0Gb/s	2000	IntelliPower™	64	2.05.07a.bt	3.5"	OK 2015/03/02
WD Red	WD10EFRX	SATA 6.0Gb/s	1000	IntelliPower™	64	2.05.07a.bt	3.5"	OK 2015/03/02
WD Purple	WD60PURX	SATA 6.0Gb/s	6000	IntelliPower™	64	2.05.07a.bt	3.5"	OK 2015/03/04
WD Purple	WD40PURX	SATA 6.0Gb/s	4000	IntelliPower™	64	2.05.07a.bt	3.5"	OK 2015/03/04
WD Purple	WD30PURX	SATA 6.0Gb/s	3000	IntelliPower™	64	2.05.07a.bt	3.5"	OK 2015/03/04
WD Purple	WD20PURX	SATA 6.0Gb/s	2000	IntelliPower™	64	2.05.07a.bt	3.5"	OK 2015/03/04
WD Purple	WD10PURX	SATA 6.0Gb/s	1000	IntelliPower™	64	2.05.07a.bt	3.5"	OK 2015/03/04



# N5810PRO 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	WD1003FZEX	SATA 6.0Gb/s	1000	7200	64	-	3.5"	Not recommend (*8)
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)
WD Blue	WD10EZEX	SATA 6.0Gb/s	1000	7200	64	-	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)



# N5810PRO 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](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](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 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](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](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](http://knowledge.seagate.com/articles/en_US/FAQ/223651en)  
[https://apps1.seagate.com/downloads/request.html?userPreferredLocaleCookie=en\\_US\\_](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](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.