Areca 6Gb/12Gb SAS/SATA Controllers HDD Compatibility Matrix

As of 2023-10-13

The Enterprise RAID-ready SATA drive goes beyond desktop-class disc drives to address the unique needs of nearline applications with higher reliability and smoother integration into multi-disc nearline applications.

The following table is the list of current qualified and supported SATA drives

Brand	Model Name	Capacity	Firmware	SATA RAID Controllers		SAS RAID Controllers		Remark
				Simple Test	Stress Test	Simple Test	Stress Test	
Hitachi	HUH721212ALE600	12TB	--	Pass	--	Pass	--	
Hitachi	HUH721010ALE600	10TB	210	Tested by distributor		Tested by distributor		
Hitachi	HUH728080ALE600	8TB	514	Tested by distributor		Tested by distributor		
Hitachi	HUS726060ALA640	6TB	1EN	Tested by distributor		Tested by distributor		
Hitachi	HMS5C4040ALE640	4TB	MPAOA3W0	Pass	Pass	Pass	--	
Hitachi	HUS724040ALE640	4TB	MJAOA3B0	--	--	Pass	Pass	
Hitachi	HUS724040ALA640	4TB	MFAOA8B0	Pass	--	Pass	--	
Hitachi	HUS723030ALS640	3TB	A220	--	--	Pass	--	
Seagate	ST22000NM001E	22TB	SN01	Pass		Pass		
Seagate	ST20000NM007D	20TB	SN01	Pass	--	Pass	--	
Seagate	ST18000NM000J	18TB	SN01	Pass	--	Pass	--	
Seagate	ST8000AS0002	8TB	AR15	Pass	--	Pass	--	*2
Seagate	ST3000NC000	3TB	CNS1	--	--	Pass	--	
Seagate	ST2000NM0001	2TB	0002	--	-	Pass	--	
Seagate	ST8000NM000A	8TB	SN01	Pass	--	Pass	--	
Seagate	ST2000NM0011	2TB	SN02	--	--	Pass	--	
Seagate	ST10000NM0016	10TB	SND0	Tested by distributor		Tested by distributor		
Seagate	ST14000NM0018	14TB	SN01	Pass	--	Pass	--	

Simple Test : No Error found in 1 week   **Stress Test : No Error found in 1 month**

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Brand	Model Name	Capacity	Firmware	SATA RAID Cards		SAS RAID Cards		Remark
				Simple Test	Stress Test	Simple Test	Stress Test	
Seagate	ST16000NM001G	16TB	SN01	Pass		Pass	--	
Seagate	ST6000NM0024	6TB	SN02	Pass	Pass	--	--	
Seagate	ST4000NM0033	4TB	0001	--	--	Pass	--	
Seagate	STx000NM0033	1-4TB	SN04	Tested by distributor		Tested by distributor		
Seagate	ST6000NM0034	6TB	E001	Tested by distributor		Tested by distributor		
Seagate	ST8000NM0055	8TB	PN01	Pass *1	--	Pass *1	--	5 HDD Tested
Seagate	ST8000NM0055	8TB	SN03	Tested by distributor		Tested by distributor		
Seagate	ST10000NM0086	10TB	SN02	Tested by distributor		Tested by distributor		
Seagate	ST6000NM0115	6TB	SN03	Tested by distributor		Tested by distributor		
Seagate	ST4000NM0115	4TB	SN03	Tested by distributor		Tested by distributor		
Seagate	ST4000NM0125	4TB	E003	--	--	Tested by distributor		
Seagate	ST2000NM0125	2TB	E003	Tested by distributor		Tested by distributor		
Seagate	ST2000NX0253	2TB	E002	Tested by distributor		Tested by distributor		
Seagate	ST31000524NS	1TB	SN11	--	--	Pass	Pass	
Seagate	ST91000640NS	1TB	SN01	--	--	Pass	--	
Seagate	ST32000644NS	2TB	SN11	--	--	Pass	Pass	
Seagate	ST33000650NS	3TB	0001	--	--	Pass	--	
Toshiba	MG05ACA800E	8TB	GX1A	Pass	--	Pass	--	
Toshiba	MG04ACA600E	6TB	FS3B	--	--	Pass	--	5 HDD Tested
Toshiba	MG04ACA400E	4TB	FP1B	Pass	--	Pass	--	
Toshiba	MG04ACA500E	5TB	FP1B	Pass	--	Pass	--	
Toshiba	MC04ACA400E	4TB	FP1A	Pass	--	Pass	--	

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Brand	Model Name	Capacity	Firmware	SATA RAID Cards		SAS RAID Cards		Remark
				Simple Test	Stress Test	Simple Test	Stress Test	
Toshiba	MC04ACA500E	5TB	FP1A	Pass	--	Pass	--	
Toshiba	MG04ACA50DE	5TB	FS38	Pass	--	Pass	--	
Toshiba	MG03ACA400	4TB	FL1A	--	--	Pass	--	
Toshiba	MG03ACA300	3TB	FL1A	--	--	Pass	--	
Toshiba	MG03ACA200	2TB	FL1A	Pass	--	Pass	--	
Toshiba	MK2002TSKB	2TB	MT2A	--	--	Pass	--	
WD	WUH721818ALE6L4	18TB	PCGNW120	Pass	--	Pass	--	
WD	WD121KRYZ	12TB	-	Pass	--	Pass		
WD	WD4001FFSX	4TB	81.00A81	Pass	Pass	Pass	Pass	
WD	WD4000FYYZ	4TB	01.01K01	Pass	Pass	Pass	Pass	
WD	WD4000F9YZ	4TB	01.01AX1	Pass	--	Pass	--	
WD	WD6000HLHX	600GB	04.05G04	--	--	Pass	Pass	
WD	WD2003FYYS-	2.0TB	01.01D01	--	--	Pass	Pass	
WD	WD1003FBYX	1.0TB	01.01V01	--	--	Pass	--	
WD	WD5003ABYX	500GB	01.01S01	--	--	Pass	--	
WD	WD2002FYPS-	2.0TB	04.05G04	--	--	Pass	Pass	

*1. If you encounter abnormal timeout issue, please update controller firmware to version 1.52-2015-11-20 and enable HDD Power Management "Delay For PHY To Stable" to 20 seconds.

*2. These drives are used for cold data storage which is not recommended for heavy loading applications.

Simple Test : No Error found in 1 week   **Stress Test : No Error found in 1 month**

Areca 6Gb/12Gb SAS/SATA Controllers HDD Compatibility Matrix

Compatible issue on SAS drives is rare, so we do not qualified SAS drives a lot.

The following table is the list of current qualified SAS drives

Brand	Model Name	Capacity	Firmware	SAS 6Gb RAID Controllers		SAS 12Gb RAID Controllers		Remark
				Simple Test	Stress Test	Simple Test	Stress Test	
Hitachi	HUS728T8TAL5204	8TB	C410	--		Pass	--	
Hitachi	HUH721212AL5200	12TB	--	Pass	--	Pass	--	
Hitachi	HUH721010AL5200	10TB	210	Tested by distributor		Tested by distributor		
Hitachi	HUH728080AL5200	8TB	515	Tested by distributor		Tested by distributor		
Hitachi	HUS726060ALS640	6TB	280	Tested by distributor		Tested by distributor		
Seagate	ST22000NM000E	22TB	E001	Pass		Pass--		
Seagate	ST20000NM002D	20TB	E001	Pass		Pass--		
Seagate	ST16000NM002G	16TB	E003	Pass	--	Pass	--	
Seagate	ST1800MM0018	1.8TB	E002	--	--	Pass	Pass	
Seagate	ST4000NM0023	4TB	0001	Pass	Pass	--	--	
Seagate	STx000NM0023	1-4TB	0004	Tested by distributor		Tested by distributor		
Seagate	ST6000NM0024	6TB	SN02	Tested by distributor		Tested by distributor		
Seagate	ST4000NM0025	4TB	N004	--		Pass	--	
Seagate	ST4000NM003A	4TB	N001	--		Pass		
Seagate	ST14000NM0048	14TB	E002	Pass	--	Pass	--	
Seagate	ST8000NM0075	8TB	E003	Tested by distributor		Tested by distributor		
Seagate	ST6000NM0095	6TB	E003	Tested by distributor		Tested by distributor		
Seagate	ST10000NM0096	10TB	E001	Tested by distributor		Tested by distributor		
Seagate	ST2000NM0135	2TB	E003	Tested by distributor		Tested by distributor		
Seagate	ST2000NX0273	2TB	N003	--		Tested by distributor		

Simple Test : No Error found in 1 week   **Stress Test : No Error found in 1 month**

Areca 6Gb/12Gb SAS/SATA Controllers HDD Compatibility Matrix

Brand	Model Name	Capacity	Firmware	SAS 6Gb RAID Controllers		SAS 12Gb RAID Controllers		Remark
				Simple Test	Stress Test	Simple Test	Stress Test	
Seagate	STx00MP0146	600GB-900GB	C002	--		Tested by distributor		
Seagate	STx00MP0006	300GB-900GB	N002	--		Tested by distributor		
Seagate	ST600MP0035	600GB	E003	--	--	Pass	Pass	
Toshiba	AL15SEB24EQ	2.4TB	0102	Pass	--	Pass	--	
Toshiba	MG04SCAx00E	1-5TB	0103	Tested by distributor		Tested by distributor		
Toshiba	MG04SCA60EE	6TB	0103	--		Tested by distributor		
Toshiba	AL14SEBxx0N	300GB-1.2TB	0102	--		Tested by distributor		
Toshiba	AL13SEL900	900GB	6101	Pass	Pass	Pass	Pass	
Toshiba	MG04SCAx00E	1-4TB	0103	Tested by distributor		Tested by distributor		
Toshiba	MG03SCA400	3TB	1001	Pass	Pass	--	--	
Toshiba	MG03SCA300	4TB	1001	Pass	Pass	--	--	
Toshiba	MG03SCA200	2TB	1001	Pass	Pass	Pass	Pass	
Toshiba	MG03SCA100	1TB	1001	Pass	Pass	Pass	Pass	
WD	WD4001FYYG	4TB	VR02	Pass	Pass	--	--	

*1. If you encounter abnormal timeout issue on using 12Gb SAS drives, please make sure the enclosure/backplane is 12Gb SAS compatible, or modify HDD link speed to 6Gb/s to avoid signal quality issues.

Simple Test : No Error found in 1 week　　　　**Stress Test : No Error found in 1 month**

Areca 6Gb/12Gb SAS/SATA Controllers HDD Compatibility Matrix

The following table is the list of current qualified drives especially for **ARC-1203** and **ARC-5066**

Brand	Model Name	Capacity	Firmware	ARC-1203 / ARC-5066		Remark
				Simple Test	Stress Test	
WD	**WD60PURX**	**6TB**	**80.00A80**	**Pass**	**--**	
WD	**WD6NPURX**	**6TB**	**01.008N0**	**Pass**	**--**	

Simple Test : No Error found in 1 week　　　　**Stress Test : No Error found in 1 month**