

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

As of Jan-20-2017

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 | 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 | ST10000NM0016 | 10TB | SND0 | Tested by distributor | | Tested by distributor | | |
| Seagate | ST10000NM0086 | 10TB | SN02 | Tested by distributor | | Tested by distributor | | |
| Seagate | ST8000NM0055 | 8TB | SN03 | 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 | ST8000NM0055 | 8TB | PN01 | Pass *1 | -- | Pass *1 | -- | 5 HDD Tested |
| Seagate | ST6000NM0034 | 6TB | E001 | Tested by distributor | | Tested by distributor | | |
| Seagate | ST6000NM0024 | 6TB | SN02 | Pass | Pass | -- | -- | |

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 | SATA RAID Cards | | SAS RAID Cards | | Remark |
|---------|--------------|----------|----------|-----------------------|-------------|-----------------------|-------------|--------|
| | | | | Simple Test | Stress Test | Simple Test | Stress Test | |
| Seagate | ST4000NM0033 | 4TB | 0001 | -- | -- | Pass | -- | |
| Seagate | STx000NM0033 | 1-4TB | SN04 | Tested by distributor | | Tested by distributor | | |
| Seagate | ST3000NC000 | 3TB | CNS1 | -- | -- | Pass | -- | |
| Seagate | ST2000NM0001 | 2TB | 0002 | -- | - | Pass | -- | |
| Seagate | ST2000NM0011 | 2TB | SN02 | -- | -- | Pass | -- | |
| Seagate | ST33000650NS | 3TB | 0001 | -- | -- | Pass | -- | |
| Seagate | ST91000640NS | 1TB | SN01 | -- | -- | Pass | -- | |
| Seagate | ST32000644NS | 2TB | SN11 | -- | -- | Pass | Pass | |
| Seagate | ST31000524NS | 1TB | SN11 | -- | -- | Pass | Pass | |
| Toshiba | MG03ACA400 | 4TB | FL1A | -- | -- | Pass | -- | |
| Toshiba | MG03ACA300 | 3TB | FL1A | -- | -- | Pass | -- | |
| Toshiba | MG03ACA200 | 2TB | FL1A | Pass | -- | Pass | -- | |
| Toshiba | MK2002TSKB | 2TB | MT2A | -- | -- | 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 | |

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

*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.

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 | 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 | ST10000NM0096 | 10TB | E001 | Tested by distributor | | Tested by distributor | | |
| Seagate | ST8000NM0075 | 8TB | E003 | Tested by distributor | | Tested by distributor | | |
| Seagate | ST6000NM0095 | 6TB | E003 | Tested by distributor | | Tested by distributor | | |
| Seagate | ST2000NM0135 | 2TB | E003 | Tested by distributor | | Tested by distributor | | |
| Seagate | ST2000NX0273 | 2TB | N003 | -- | | Tested by distributor | | |
| Seagate | STx00MP0146 | 600GB-900GB | C002 | -- | | Tested by distributor | | |
| Seagate | STx00MP0006 | 300GB-900GB | N002 | -- | | Tested by distributor | | |
| Seagate | ST6000NM0024 | 6TB | SN02 | Tested by distributor | | Tested by distributor | | |
| Seagate | ST4000NM0023 | 4TB | 0001 | Pass | Pass | -- | -- | |
| Seagate | STx000NM0023 | 1-4TB | 0004 | Tested by distributor | | Tested by distributor | | |
| Seagate | ST600MP0035 | 600GB | E003 | -- | -- | Pass | Pass | |
| Seagate | ST1800MM0018 | 1.8TB | E002 | -- | -- | 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 | | |

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 | |
| 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 | -- | -- | |

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 | 01.008NO | Pass | -- | |

Simple Test : No Error found in 1 week

Stress Test : No Error found in 1 month