



# **Intel® RAID Controller RT3WB080**

## ***Tested Hardware and Operating System List (THOL)***

**Revision 5.0**

**July, 2012**

**Enterprise Platforms and Services Division**

## Revision History

| Date           | Revision Number | Modifications   |
|----------------|-----------------|---|
| December, 2010 | 1.0             | Initial release   |
| March, 2011    | 2.0             | Updated following: <ul style="list-style-type: none"><li>▪ Firmware configuration</li><li>▪ Operating systems</li><li>▪ Hard disk drives and solid state drives</li></ul>   |
| August, 2011   | 3.0             | Updated following: <ul style="list-style-type: none"><li>▪ Firmware configuration</li><li>▪ Operating systems</li><li>▪ Enclosures, PCI Adapters, and Peripherals</li><li>▪ Hard disk drives and solid state drives</li></ul> |
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# 1. Introduction

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This document provides users of the Intel® RAID Controller RT3WB080 with a guide to the operating systems, server boards, chassis, disk drives, and other peripherals that Intel tested for use with this RAID controller.

This document will be updated as additional testing is performed, or until the Intel® RAID controller is no longer in production. Each new release of the document will include the information from previous releases.

Intel will only provide support for this RAID controller when it is installed in a system configured with the specified server boards, and when the server board is configured with the tested RAID firmware, system BIOS / firmware, and operating system versions.

This RAID controller was thoroughly tested with Intel® server boards, Intel® drive enclosures, and the third-party devices listed in this document. However, it is not practical to test the RAID controller in every possible combination of server board, drive enclosure, hard drive, and peripheral device. Sample combinations have been tested to gain confidence in their compatibility, and the devices listed were tested in one or more configurations.

## 1.1 Test Overview

Testing performed on the Intel® RAID Controller RT3WB080 is classified under two categories:

- Compatibility Testing
- Stress Testing

### 1.1.1 Basic Compatibility Testing

Compatibility testing is performed with each supported operating system. Basic installation testing validates that the RAID controller can be used to install the operating system and that the base hardware feature set is functional. A small set of peripherals are used for installation purposes only. Additional add-in cards are not tested.

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**Note:** *The latest version of an operating system signifies the latest supported version at the time of testing. New releases of this document may include a newly supported release of an operating system. Previous releases of a supported operating system may not be tested beyond the basic compatibility test process.*

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#### 1.1.1.1 Support Commitment for Basic Installation Testing

Intel commits to the following level of customer support for operating systems that receive only basic installation testing:

- Intel will provide tested operating system drivers for each of the integrated controllers on the server board, provided the controller vendor has a driver available. Intel does not require vendors to develop drivers for operating systems that they do not already support. This may limit the functionality of certain server board integrated controllers.

- Intel will provide support to customers who experience issues with the integrated controllers due to the installation or functionality of an operating system only if a driver is available.
- Intel does not provide support for issues related to the use of add-in adapters or peripherals installed in the server system with an operating system that received only basic installation testing.
- Support is defined as assistance provided to a customer in root causing an issue and determining an acceptable resolution to the operating system problem. The resolution may include, but is not limited to, on-board controller driver updates, engaging the vendor, BIOS changes, firmware changes, or determining an acceptable workaround for the issue with the customer.

## 1.1.2 Adapter / Peripheral Compatibility and Stress Testing

Adapter / Peripheral Compatibility and Stress testing is performed only on the most current release of a supported operating system available at the time of testing. The Adapter / Peripheral Compatibility and Stress testing process consists of three areas:

- **Base Platform:** Each base platform will successfully install a given operating system, successfully run a disk stress test, and successfully run a network stress test.
- **Adapter Compatibility:** Adapter compatibility validation (CV) testing uses test suites to gain an accurate view of how the server performs with a wide variety of adapters under the primary supported operating systems. These tests are designed to show hardware compatibility between the cards and the server platform and include functional testing only. CV testing does not include heavy stressing of the systems or the cards.
- **Stress Testing:** This test sequence uses configurations with add-in adapters installed in all available slots (depending on the chassis used), and runs for a minimum of 72 hours (three days) without injecting errors. Each configuration passes an installation test, a network/disk stress test, and tape backup test. Any fatal errors require a restart of the test.

### 1.1.2.1 Support Commitment for Adapter / Peripheral Compatibility and Stress Testing

Intel will provide the following level of customer support for operating systems that receive Adapter / Peripheral Compatibility and Stress testing:

- Intel will provide support to customers who experience issues with tested operating systems involving the installation or functionality of the server board with or without the adapters and peripherals listed in this document as having been tested under the operating system.
- Support is defined as assistance provided to a customer in root causing an issue and determining an acceptable resolution to the problem. The resolution may include, but is not limited to, on-board controller driver updates, engaging the vendor, BIOS changes, firmware changes, or determining a workaround for the issue.
- Intel provides and tests operating system drivers for each on-board video, network, and storage controller.
- Intel enables vendors to provide driver support for add-in adapters using these operating systems.



- Intel will go through some of the steps to achieve certification to ensure its customers do not encounter problems. The actual certification is the responsibility of the customer.

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**Note:** Intel does not provide a support commitment for operating systems, adapter cards, and peripherals not listed in this document. Intel will consider requests for support on a case-by-case basis.

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## 1.2 Pass/Fail Test Criteria

For each operating system, adapter, and peripheral configuration, a test passes if specific criteria are met. Specific configurations with particular characteristics are addressed on a case-by-case basis. In general, a configuration passes testing if the following conditions are met:

- The operating system installed without error.
  - Manufacturer's installation instructions or Intel's best-known methods were used for the operating system installation.
  - No extraordinary workarounds were required during the operating system installation.
  - The server system behaved as expected during and after the operating system installation.
  - Application software installed and executed normally.
- Hardware compatibility tests ran to completion without error.
- Test software suites executed successfully:
  - Test and data files were created in the correct directories without error.
  - Files copied from the client to the server and back match the original without error.
  - Clients remain connected to the server system.
  - Industry-standard test suites run to completion without error.

## 2. Firmware Configurations

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The following table lists the tested controller and firmware configurations. This document will be updated with additional configurations as new revisions of the Intel® RAID Controller RT3WB080 or firmware versions for that controller are released. Each configuration is assigned an identifier number which is referenced in the tables throughout this document.

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**Note:** Intel only provides support for adapters and peripherals in the configuration with which they were tested.

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| Base System Identifier # | Product Code | Part Number | Firmware Revision  |
|--------------------------|--------------|-------------|--------------------|
| 1                        | RT3WB080     | 911121      | 12.9.0-0046        |
| 2                        | RT3WB080     | 911121      | 12.12.0-0036       |
| 3                        | RT3WB080     | 911121      | Ver.2.120.63-1242  |
| 4                        | RT3WB080     | 911121      | Ver.2.130.03-1332  |
| 5                        | RT3WB080     | 911121      | Ver.2.130.293-1580 |

### 3. Operating Systems

The following table provides a list of supported operating systems for the Intel® RAID Controller RT3WB080. Each operating system was tested for compatibility with Intel® RAID Controller RT3WB080 configuration listed in Chapter 2. Operating systems are only supported in the specified base system configuration(s) with which they were tested.

The following table also indicates whether each operating system received Basic Installation testing, or Adapter / Peripheral Compatibility and Stress testing. For information on the support commitments for Basic Installation Testing and Adapter / Peripheral Compatibility and Stress Testing, see Chapter 1.

Any variations to the standard operating system installation process are documented in the Installation Guidelines section of this document. If the installation guidelines are not noted in the following table, then the operating system installed as expected using the manufacturer's installation instructions or Intel's best-known methods.

**Note:** *The operating systems listed in the following table have been tested for compatibility with the Intel® RAID Controller RT3WB080, but the operating system and its associated driver may not have been tested for compatibility with the server board you have selected. Refer to the supported operating system list for your server board to verify operating system compatibility with the server board. This document lists testing performed on Intel® Server Boards only.*

| Ident# | Operating System (with latest Service Package or Update Package) | Base System Configuration Tested - Type of Testing |
|--------|--|--|
| 1      | Microsoft Windows 2003*  | Configuration 1,2,3,4,5 – Compatibility and Stress |
| 2      | Microsoft Windows 2003*, x64                                     | Configuration 1,2,3,4,5 – Compatibility and Stress |
| 3      | Microsoft Windows XP*  | Configuration 1,4,5 – Compatibility only           |
| 4      | Microsoft Windows XP*, x64                                       | Configuration 1,4,5 – Compatibility only           |
| 5      | Microsoft Windows Vista*   | Configuration 1,2,3,4,5 – Compatibility and Stress |
| 6      | Microsoft Windows Vista*, x64                                    | Configuration 1,2,3,4,5 – Compatibility and Stress |
| 7      | Microsoft Windows 2008*  | Configuration 1,2,3,4,5 – Compatibility and Stress |
| 8      | Microsoft Windows 2008*, x64                                     | Configuration 1,2,3,4,5 – Compatibility and Stress |
| 9      | Microsoft Windows 2008 R2*, x64                                  | Configuration 1,2,3,4,5 – Compatibility and Stress |
| 10     | Microsoft Windows 7*   | Configuration 1,2,3,4,5 – Compatibility and Stress |
| 11     | Microsoft Windows 7*, x64  | Configuration 1,2,3,4,5 – Compatibility and Stress |
| 12     | Red Hat* Enterprise Linux ES 4.0                                 | Configuration 1,2,3,4,5 – Compatibility and Stress |
| 13     | Red Hat* Enterprise Linux ES 4.0, x86_64                         | Configuration 1,2,3,4,5 – Compatibility and Stress |
| 14     | Red Hat* Enterprise Linux ES 5.0                                 | Configuration 1,2,3,4,5 – Compatibility and Stress |
| 15     | Red Hat* Enterprise Linux ES 5.0, x86_64                         | Configuration 1,2,3,4,5 – Compatibility and Stress |
| 16     | Red Hat* Enterprise Linux ES 6.0                                 | Configuration 1,2,3,4,5 – Compatibility and Stress |
| 17     | Red Hat* Enterprise Linux ES 6.0, x86_64                         | Configuration 1,2,3,4,5 – Compatibility and Stress |
| 18     | SuSE* Linux Enterprise Server 10.0                               | Configuration 1,2,3,4,5 – Compatibility and Stress |
| 19     | SuSE* Linux Enterprise Server 10.0, x86_64                       | Configuration 1,2,3,4,5 – Compatibility and Stress |
| 20     | SuSE* Linux Enterprise Server 11.0                               | Configuration 1,2,3,4,5 – Compatibility and Stress |

| Ident# | Operating System (with latest Service Package or Update Package) | Base System Configuration Tested – Type of Testing |
|--------|--|--|
| 21     | SuSE* Linux Enterprise Server 11.0 x86_64                        | Configuration 1,2,3,4,5 – Compatibility and Stress |
| 22     | VMware* ESXi 4.1   | Configuration 1,2,3,4,5 – Compatibility and Stress |
| 23     | VMware* ESXi 5.0   | Configuration 4,5 – Compatibility and Stress       |

### 3.1 Operating System Certifications

The following table lists the operating systems that Intel will certify with the Intel® RAID Controller RT3WB080. Each customer is responsible for their own certification from the individual operating system vendors. In many cases, customers may leverage their operating system certifications from the testing completed by Intel. See the “Comments” column next to each operating system in the following table for additional information. Intel’s certifications, pre-certification, and operating system testing may help reduce some of the risk in achieving customer certifications with the operating system vendors.

| Operating System                          | Certification Listing           | Comments   |
|---|---------------------------------|--|
| Microsoft Windows 2003 Enterprise Server* | Intel® RAID Controller RT3WB080 | OEM must request certification by Microsoft for their specific product.<br><a href="http://www.microsoft.com/whdc/hcl/default.aspx">http://www.microsoft.com/whdc/hcl/default.aspx</a> |
| Microsoft Windows 2008 Enterprise Server* | Intel® RAID Controller RT3WB080 | OEM must request certification by Microsoft for their specific product.<br><a href="http://www.microsoft.com/whdc/hcl/default.aspx">http://www.microsoft.com/whdc/hcl/default.aspx</a> |
| Microsoft Windows 7 Enterprise Server*    | Intel® RAID Controller RT3WB080 | OEM must request certification by Microsoft for their specific product.<br><a href="http://www.microsoft.com/whdc/hcl/default.aspx">http://www.microsoft.com/whdc/hcl/default.aspx</a> |

## 4. Supported Server Boards

### 4.1 Intel® Server Boards

Below list includes the Intel® Server Board software versions that the server boards were configured with at the time of testing.

| Intel® Server Board          | BIOS  | BMC   | FRU/SDR | HSC  |
|------------------------------|-------|-------|---------|------|
| S5520UR                      | R0061 | R0060 | 26      | 2.17 |
| S5500WB                      | R0061 | R0060 | 16      | 2.15 |
| S5500BC                      | R0061 | R0060 | 22      | 2.18 |
| S5520HC / S5500HCV / S5520SC | R0061 | R0060 | 30      | 2.18 |
| S3420GP                      | R0051 | R0125 | 22      | 2.15 |

### 4.2 3<sup>rd</sup> Party Server Boards

Unless specifically noted, the boards below were configured with the latest software versions available at the time of testing. Check with the 3rd party vendors for more details.

| Part Number     | System BIOS     | Vendor         |
|-----------------|-----------------|----------------|
| X6DH8           | 6.1             | Super Micro*   |
| X8SAX           | 1.0a            | Super Micro*   |
| H8DCE           | AMI. Ver.080012 | Super Micro*   |
| X6DHE           | 6               | Super Micro*   |
| X6DH8-G         | 6               | Super Micro*   |
| xSeries 3200    | 1.41            | IBM*           |
| xSeries 3200 M2 | 1               | IBM*           |
| xSeries 3250 M2 | 1               | IBM*           |
| xSeries 3350    | 1.37            | IBM*           |
| xSeries 3550    | T22             | IBM*           |
| xSeries 3550    | 1.37            | IBM*           |
| xSeries 3650 M2 | 1.02 Build      | IBM*           |
| xSeries 3950    | 1.11            | IBM*           |
| S4881G2NR       | 4.0 Rev 6.1     | Tyan*          |
| Transport GT24  | AMI 2.3.1       | Tyan*          |
| S5396           | 1.0.1.5396      | Tyan*          |
| S5360G2NR       | 1.4             | Tyan*          |
| S7010AGM2NRF    | 3.00            | Tyan*          |
| S7002G2NR-LE    | 1.07            | Tyan*          |
| S7012GM4NR      | 2.3             | Tyan*          |
| 5YASV-RH        | 1.0.0029        | Gigabyte Tech* |

## 5. Enclosures, PCI Adapters, and Peripherals

The testing of enclosures, add-in cards, and peripherals was performed on the Intel® RAID Controller RT3WB080 by Intel labs, independent test labs, or the vendor. Compatibility and stress testing was performed with the latest version of an operating system available at the time of testing.

Although a large sample of configurations were tested, not all devices were tested under all operating systems, and not all possible combinations or configurations of third-party devices were tested for inter-compatibility due to the large number of possible configurations. To verify compatibility, use the Server Configurator Tool available at:

<http://serverconfigurator.intel.com/default.aspx>.

Add-in adapter card and peripheral compatibility and stress testing is performed with the latest version of an operating system available at the time of testing. The adapters are divided into categories based on their functionality. All integrated on-board devices are tested by default and are, therefore, not included in the following tables.

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**Note:** All adapter cards and peripherals were not tested under all operating systems.

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Any variations to the standard adapter installation process or to expected adapter functionality are documented in the 'Installation Guidelines' section of this document. If there are installation guidelines affecting a particular adapter and operating system combination, they are referenced in the following table. If the installation guidelines are not noted in the following table, then the adapter installed and functioned as expected, using the manufacturer's installation instructions or Intel's best-known methods.

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**Note:** Adapter cards are normally tested with unused add-in adapters and on-board controller expansion ROMs disabled in the BIOS Setup. Intel recommends that customers disable the option ROM for add-in controllers and/or the on-board controllers when not booting from the controller or needing to use its built-in utilities.

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### 5.1 Internal Storage

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**Note:** The enclosures are listed only if they were attached to the Intel® RAID Controller RT3WB080 during testing. There is no out-of-band enclosure management for a second backplane, so the only way to get enclosure management with two backplanes is to use at least one expander backplane with the Intel® RAID Controller RT3WB080.

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| Manufacturer | Model Name                       | Model Number | Interface | Comments    |
|--------------|----------------------------------|--------------|-----------|-------------|
| Intel        | Intel® Backplane<br>AXX6DRV3GEXP | AXX6DRV3GEXP | SAS/SATA  | 3Gb/s only  |
| Intel        | Intel® Backplane<br>AXX6DRV3GR   | AXX6DRV3GR   | SAS/SATA  | Up to 6Gb/s |
| Intel        | Intel® Backplane<br>AXX6DRV3G    | AXX6DRV3G    | SAS/SATA  | 3Gb/s only  |
| Intel        | Intel® Backplane<br>AXX4DRV3GEXP | AXX4DRV3GEXP | SAS/SATA  | 3Gb/s only  |

|            |  |                                  |          |  |
|------------|--|----------------------------------|----------|--|
| Intel      | Intel® Backplane<br>AXX4DRV3GR         | AXX4DRV3GR                       | SAS/SATA | Up to 6Gb/s  |
| Intel      | Intel® Backplane<br>AXX4DRV3G          | AXX4DRV3G                        | SAS/SATA | 3Gb/s only   |
| Intel      | Intel® Backplane<br>FSR1550SAS         | Intel® Backplane<br>FSR1550SAS   | SAS/SATA | Only works with Intel®<br>Passive Midplane<br>FALPASMP under 3Gb/s<br>mode |
| Intel      | Intel® Backplane<br>FSR2500SASBP       | Intel® Backplane<br>FSR2500SASBP | SAS/SATA | Only works with Intel®<br>Passive Midplane<br>FALPASMP under 3Gb/s<br>mode |
| Intel      | Intel® Backplane<br>ASR1500PASBP       | ASR1500PASBP                     | SAS/SATA | Up to 6Gb/s  |
| Intel      | Intel® Backplane<br>FHW4U2SASBP        | FHW4U2SASBP                      | SAS/SATA | Up to 6Gb/s  |
| Intel      | Intel® Passive<br>Midplane<br>FRUPASMP | FRUPASMP                         | SAS/SATA | Up to 6Gb/s  |
| Intel      | Intel® integrated<br>server system     | SR1625URR                        | SAS/SATA | Up to 6Gb/s  |
| Intel      | Intel® integrated<br>server system     | SR2600URBRPR                     | SAS/SATA | Up to 6Gb/s  |
| Intel      | Intel® integrated<br>server system     | SR2625URBRPR                     | SAS/SATA | Up to 6Gb/s  |
| Intel      | Intel® integrated<br>server system     | SR2600URSATAR                    | SAS/SATA | Up to 6Gb/s  |
| Intel      | Intel® integrated<br>server system     | SR1625URRNA                      | SAS/SATA | Up to 6Gb/s  |
| Intel      | Intel® integrated<br>server system     | SR2600URBRPRNA                   | SAS/SATA | Up to 6Gb/s  |
| Intel      | Intel® integrated<br>server system     | SR2625URBRPRNA                   | SAS/SATA | Up to 6Gb/s  |
| Intel      | Intel® integrated<br>server system     | SR2600URSATARNA                  | SAS/SATA | Up to 6Gb/s  |
| Intel      | Intel® Backplane<br>F2U8X35HSBP        | F2U8X35HSBP                      | SAS/SATA | Up to 6Gb/s  |
| Intel      | Intel® Backplane<br>F2U12X35HSBP       | F2U12X35HSBP                     | SAS/SATA | Up to 6Gb/s  |
| Intel      | Intel® Backplane<br>F1U8X25HSBP        | F1U8X25HSBP                      | SAS/SATA | Up to 6Gb/s  |
| Intel      | Intel® Backplane<br>FXX8X25HSBP        | FXX8X25HSBP                      | SAS/SATA | Up to 6Gb/s  |
| Intel      | Intel® Backplane<br>FUP8X35HSBP        | FUP8X35HSBP                      | SAS/SATA | Up to 6Gb/s  |
| Chenbro    | RM31616ML                              | RM31616ML                        | SAS/SATA | 3Gb/s only   |
| Chenbro    | RM23212ML                              | RM23212ML                        | SAS/SATA | 3Gb/s only   |
| Chenbro    | RM41416ML                              | RM41416ML                        | SAS/SATA | 3Gb/s only   |
| SuperMicro | SC213                                  | SC213                            | SAS/SATA | 3Gb/s only   |
| SuperMicro | SAS2-216EL1                            | SAS2-216EL1                      | SAS/SATA | Up to 6Gb/s  |
| SuperMicro | SAS2-216EL2                            | SAS2-216EL2                      | SAS/SATA | Up to 6Gb/s  |

## 5.2 Tape and Optical Drives

**Note:** The tape and optical drives are listed only if they were attached to this Intel® RAID Controller RT3WB080 during testing.

| Manufacturer     | Model Name | Model Number | Interface    |
|------------------|------------|--------------|--------------|
| Sony*            | SDX-570V   | SDX-570V     | 3G SATA Tape |
| HL Data Storage  | GDR-H20N   | GDR-H20N     | SATA DVD-ROM |
| HL Data Storage* | GDR-8164B  | GDR-8164B    | SATA DVD-ROM |
| TANDBERG*        | 3504-LTO   | LTO-4 HH     | 6G SAS Tape  |
| HP StorageWorks* | EH958A     | LTO-5        | 6G SAS Tape  |
| QUANTUM*         | TC-L32BN   | LTO-3 HH     | 3G SAS Tape  |
|                  | CD72SH     | DAT 72       | 3G SATA Tape |



## 6. Hard Disk Drives and Solid State Drives

The testing of hard disk drives and solid state drives was performed with the Intel® RAID Controller RT3WB080 by Intel labs, independent test labs, or vendors. The compatibility and stress testing is performed with the latest version of an operating system available at the time of testing. Although a large sample of configurations was tested, not all devices were tested under all operating systems, and not all possible combinations or configurations of third-party devices were tested for inter-compatibility due to the large number of possible configurations. To verify that the device is included for the server board as well as for the Intel® RAID Controller RT3WB080, use the Server Configurator tool available at: <http://serverconfigurator.intel.com/default.aspx>.

**Note:** All hard disk drives and solid state drives were not tested under all operating systems.

Any variations to the standard adapter installation process or to the expected adapter functionality are documented in the 'Installation Guidelines' section of this document. If there are installation guidelines affecting a particular adapter and operating system combination, these are referenced in the following table. If the installation guidelines are not noted in the following table, then the adapter installed and functioned as expected, using the manufacturer's installation instructions or Intel's best-known methods.

### 6.1 Hard Disk Drives and Solid State Drives (SSD)

**Note:** The hard disk drives and solid state drives are listed in the following table only if they were attached to the Intel® RAID Controller RT3WB080 during testing.

**Note:** To select hard drives for Intel® Server Chassis and Intel® Server System, please use the Server Configurator tool available at: <http://serverconfigurator.intel.com/default.aspx>.

#### Solid State Drive List:

| Manufacture | Type | Speed | Model           | FW version | Capacity | Size |
|-------------|------|-------|-----------------|------------|----------|------|
| ADATA       | SATA | 3Gb/s | AS599S-128GM-C  | 3.1.0      | 128GB    | 2.5" |
| ADATA       | SATA | 3Gb/s | AS599S-256GM-C  | 3.1.0      | 256GB    | 2.5" |
| ANOBIT      | SATA | 3Gb/s | Genesis-1       | 2.21       | 200GB    | 3.5" |
| CORSAIR     | SATA | 3Gb/s | CMFSSD-64D1     | 0.1        | 64GB     | 2.5" |
| Intel       | SATA | 6Gb/s | SSDSC2BW060A3   | 400i       | 60GB     | 2.5" |
| Intel       | SATA | 6Gb/s | SSDSC2BW120A3   | 400i       | 120GB    | 2.5" |
| Intel       | SATA | 6Gb/s | SSDSC2BW180A3   | 400i       | 180GB    | 2.5" |
| Intel       | SATA | 6Gb/s | SSDSC2BW240A3   | 400i       | 240GB    | 2.5" |
| Intel       | SATA | 6Gb/s | SSDSC2BW480A3   | 400i       | 480GB    | 2.5" |
| Intel       | SATA | 6Gb/s | SSDSC2MH250A2xx | PWG4       | 250GB    | 2.5" |
| Intel       | SATA | 6Gb/s | SSDSC2MH120A2xx | PPG4       | 120GB    | 2.5" |
| Intel       | SATA | 3Gb/s | SSDSA2BW80G3    | 4PC10362   | 80GB     | 2.5" |
| Intel       | SATA | 3Gb/s | SSDSA2BW120G3   | 4PC10362   | 120GB    | 2.5" |
| Intel       | SATA | 3Gb/s | SSDSA2BW160G3   | 4PC10362   | 160GB    | 2.5" |
| Intel       | SATA | 3Gb/s | SSDSA2BW300G3   | 4PC10362   | 300GB    | 2.5" |
| Intel       | SATA | 3Gb/s | SSDSA2BW600G3   | PC10362    | 600GB    | 2.5" |
| Intel       | SATA | 3Gb/s | SSDSA2BZ100G3   | 6PB10362   | 200GB    | 2.5" |
| Intel       | SATA | 3Gb/s | SSDSA2BZ200G3   | 6PB10362   | 200GB    | 2.5" |
| Intel       | SATA | 3Gb/s | SSDSA2BZ300G3   | 6PB10362   | 200GB    | 2.5" |

| Manufacture       | Type | Speed   | Model                     | FW version | Capacity | Size |
|-------------------|------|---------|---------------------------|------------|----------|------|
| Intel             | SATA | 3Gb/s   | X25-E,SSDSA2SH032G1       | 8790       | 32GB     | 2.5" |
| Intel             | SATA | 3Gb/s   | X25-E,SSDSA2SH064G1       | 8790       | 64GB     | 2.5" |
| Intel             | SATA | 3Gb/s   | X25-E,SSDSA2SH064G1GN     | 8850       | 64GB     | 2.5" |
| Intel             | SATA | 3Gb/s   | X25-M,SSDSA2MH080G1       | 8626       | 80GB     | 2.5" |
| Intel             | SATA | 3Gb/s   | X25-M,SSDSA2ME20          | 0350       | 200GB    | 2.5" |
| Intel             | SATA | 3Gb/s   | X25-M,SSDSA2MH160G1       | 8626       | 160GB    | 2.5" |
| Intel             | SATA | 3Gb/s   | X25-M,SSDSA2M080G2GC      | 02HD       | 80GB     | 2.5" |
| Intel             | SATA | 3Gb/s   | X25-M,SSDSA2MH160G2GC     | 02HD       | 160GB    | 2.5" |
| KINGSTON          | SATA | 3Gb/s   | SVP100S2/64GB             | 0202       | 64GB     | 2.5" |
| KINGSTON          | SATA | 3Gb/s   | SVP100S2/96GB             | 0202       | 96GB     | 2.5" |
| KINGSTON          | SATA | 3Gb/s   | SVP100S2/128GB            | 0202       | 128GB    | 2.5" |
| KINGSTON          | SATA | 3Gb/s   | SVP100S2/256GB            | 0202       | 256GB    | 2.5" |
| KINGSTON          | SATA | 3Gb/s   | SVP100S2/512GB            | 0202       | 512GB    | 2.5" |
| KINGSTON          | SATA | 3Gb/s   | SNVP325-S2/256GB          | 0201       | 256GB    | 2.5" |
| KINGSTON          | SATA | 3Gb/s   | SNVP325-S2/512GB          | 0202       | 512GB    | 2.5" |
| Micron            | SATA | 6Gb/s   | MTFDDAC100SAL-1N1AA       | 0001       | 200GB    | 2.5" |
| Micron            | SATA | 6Gb/s   | MTFDDAC200SAL-1N1AA       | 0001       | 100GB    | 2.5" |
| Micron            | SATA | 6Gb/s   | MTFDDAC50SAL-1N1AA        | 0001       | 50GB     | 2.5" |
| Micron            | SATA | 6Gb/s   | MTFDDAK064MAG-1G1         | 0002       | 64GB     | 2.5" |
| Micron            | SATA | 6Gb/s   | MTFDDAK128MAG-1G1         | 0002       | 128GB    | 2.5" |
| Micron            | SATA | 6Gb/s   | MTFDDAK256MAG-1G1         | 0002       | 256GB    | 2.5" |
| Micron            | SATA | 6Gb/s   | MTFDDAC128MAM-1J1         | 0001       | 128GB    | 2.5" |
| Micron            | SATA | 6Gb/s   | MTFDDA C256MAM-1J1        | 0001       | 256GB    | 2.5" |
| Micron            | SATA | 6Gb/s   | MTFDDA C512MAM-1J1        | 0001       | 512GB    | 2.5" |
| OCZ<br>Technology | SATA | 3Gb/s   | ITDCSTE025M2002           | 1.5E       | 240GB    | 2.5" |
| OCZ<br>Technology | SATA | 6Gb/s   | D2CSTK251M11012           | 2.08       | 120GB    | 2.5" |
| OCZ<br>Technology | SATA | 6Gb/s   | Vertex 3 VTX3-25SAT3-120G | 2.08       | 120GB    | 2.5" |
| PATRIOT<br>MEMORY | SATA | 6Gb/s   | WFW120GS255DR             | 320ABBF0   | 120GB    | 2.5" |
| PATRIOT<br>MEMORY | SATA | 6Gb/s   | WFW240GS255DR             | 320ABBF0   | 240GB    | 2.5" |
| PATRIOT<br>MEMORY | SATA | 6Gb/s   | WFW480GS255DR             | 320ABBF0   | 480GB    | 2.5" |
| PATRIOT<br>MEMORY | SATA | 3Gb/s   | PatriotTorqx12            | 1881       | 120GB    | 2.5" |
| Seagate           | SATA | 6Gb/s   | ST100FM0012               | 0004       | 100GB    | 2.5" |
| Seagate           | SATA | 6Gb/s   | ST200FM0012               | 0004       | 200GB    | 2.5" |
| Seagate           | SATA | 6Gb/s   | ST400FM0012               | 0004       | 400GB    | 2.5" |
| Seagate           | SATA | 6Gb/s   | ST800FM0012               | 0004       | 800GB    | 2.5" |
| Samsung           | SATA | 6Gb/s   | PM830,MZ7PC128HAFU-00000  | 1W1Q       | 128GB    | 2.5" |
| Samsung           | SATA | 6Gb/s   | PM830,MZ7PC256HAFU-000DA  | 1W1Q       | 256GB    | 2.5" |
| Samsung           | SATA | 3Gb/s   | SM825,MZ5EA100HMDR-00003  | 303Q       | 100GB    | 2.5" |
| Samsung           | SATA | 3Gb/s   | SM825,MZ5EA200HMDR-00003  | 303Q       | 200Gb    | 2.5" |
| Samsung           | SATA | 3Gb/s   | SM825,MZ5EA400HMDR-00003  | 303Q       | 400GB    | 2.5" |
| SAMSUNG           | SATA | 3Gb/s   | MCBQE25G                  |            | 25GB     | 2.5" |
| SAMSUNG           | SATA | 3Gb/s   | 2.5"50GBSSDSATA           | 803Q       | 50GB     | 2.5" |
| SAMSUNG           | SATA | 3Gb/s   | 2.5" 100GBSSDSATA         | 803Q       | 100GB    | 2.5" |
| STEC              | SATA | 1.5Gb/s | MACH8 IO                  | 2084       | 22GB     | 2.5" |
| STEC              | SATA | 1.5Gb/s | M8ISB2-25UC               | 2119       | 25GB     | 2.5" |
| STEC              | SATA | 1.5Gb/s | M8ISB2-50UC               | 2119       | 50GB     | 2.5" |
| SUPER<br>TALENT   | SATA | 3Gb/s   | FTM12CT25H                | STTMP2     | 120GB    | 2.5" |
| Unigen            | SATA | 3Gb/s   | UGB88PGB100HB1-ES         | RC Rev1    | 100GB    | 2.5" |
| Unigen            | SATA | 3Gb/s   | UGB88APT128HS3            | 1916       | 128GB    | 2.5" |

## Hard Disk Drive List:

| Manufacture | Type | Speed | Model           | FW version | Capacity | Size | RPM  |
|-------------|------|-------|-----------------|------------|----------|------|------|
| Fujitsu     | SATA | 3Gb/s | MHZ2320B        | 0009       | 320GB    | 2.5" | 5400 |
| Fujitsu     | SATA | 3Gb/s | MHZ2320B        | 001E       | 320GB    | 2.5" | 5400 |
| Fujitsu     | SATA | 3Gb/s | MJA2320B        | 0018       | 320GB    | 2.5" | 5400 |
| Fujitsu     | SATA | 3Gb/s | MHZ2160B        | 011E       | 160GB    | 2.5" | 7200 |
| Fujitsu     | SATA | 3Gb/s | MHZ2160B        | 0009       | 160GB    | 2.5" | 7200 |
| Fujitsu     | SATA | 3Gb/s | MHZ2250B        | 0009       | 250GB    | 2.5" | 5400 |
| Fujitsu     | SATA | 3Gb/s | MHZ2250B        | 001E       | 250GB    | 2.5" | 5400 |
| Fujitsu     | SATA | 3Gb/s | MJA2400B        | 0018       | 400GB    | 2.5" | 5400 |
| Fujitsu     | SATA | 3Gb/s | MHZ2080B        | 001E       | 80GB     | 2.5" | 5400 |
| Fujitsu     | SATA | 3Gb/s | MHZ2120B        | 0109       | 120GB    | 2.5" | 5400 |
| Hitachi     | SATA | 6Gb/s | HUS724040ALE640 | A390       | 4TB      | 3.5" | 7200 |
| Hitachi     | SATA | 6Gb/s | HUS724030ALE640 | A390       | 3TB      | 3.5" | 7200 |
| Hitachi     | SATA | 6Gb/s | HUS724020ALE640 | A390       | 2TB      | 3.5" | 7200 |
| Hitachi     | SATA | 6Gb/s | HUA723030ALA640 | A580       | 3TB      | 3.5" | 7200 |
| Hitachi     | SATA | 6Gb/s | HUA723020ALA640 | A580       | 2TB      | 3.5" | 7200 |
| Hitachi     | SATA | 6Gb/s | HUA723030ALA641 | A5C0       | 3TB      | 3.5" | SED  |
| Hitachi     | SATA | 6Gb/s | HUA723020ALA641 | A5C0       | 2TB      | 3.5" | SED  |
| Hitachi     | SATA | 6Gb/s | HDS723030ALA640 | A5C0       | 3TB      | 3.5" | 7200 |
| Hitachi     | SATA | 3Gb/s | HDE721010SLA330 | A31B       | 1TB      | 3.5" | 7200 |
| Hitachi     | SATA | 3Gb/s | HDS728080PLA380 | A69A       | 82GB     | 3.5" | 7200 |
| Hitachi     | SATA | 3Gb/s | HDS722512VLSA80 | A63A       | 120GB    | 3.5" | 7200 |
| Hitachi     | SATA | 3Gb/s | HDS72161        | AB1A       | 160GB    | 3.5" | 7200 |
| Hitachi     | SATA | 3Gb/s | HDT72502        | A72A       | 250GB    | 3.5" | 7200 |
| Hitachi     | SATA | 3Gb/s | HDP72503        | A52A       | 320GB    | 3.5" | 7200 |
| Hitachi     | SATA | 3Gb/s | HDT722525DLA380 | A80A       | 250GB    | 3.5" | 7200 |
| Hitachi     | SATA | 3Gb/s | S728080PLA380   | PF20       | 80GB     | 3.5" | 7200 |
| Hitachi     | SATA | 3Gb/s | HDT722525DLA380 | A60A       | 250GB    | 3.5" | 7200 |
| Hitachi     | SATA | 3Gb/s | HDS722580VLSA80 | A63A       | 80GB     | 3.5" | 7200 |
| Hitachi     | SATA | 3Gb/s | HDS728080PLA380 | A60A       | 82GB     | 3.5" | 7200 |
| Hitachi     | SATA | 3Gb/s | HDS725050KLA360 | ABOA       | 500GB    | 3.5" | 7200 |
| Hitachi     | SATA | 3Gb/s | HDS728080PLA380 | A6BA       | 82GB     | 3.5" | 7200 |
| Hitachi     | SATA | 3Gb/s | HDT722516DLA380 | A80A       | 160GB    | 3.5" | 7200 |
| Hitachi     | SATA | 3Gb/s | HDS72161        | ABEA       | 160GB    | 3.5" | 7200 |
| Hitachi     | SATA | 3Gb/s | HUA72101        | A70M       | 1TB      | 3.5" | 7200 |
| Hitachi     | SATA | 3Gb/s | HUA72201        | A25C       | 1TB      | 3.5" | 7200 |
| Hitachi     | SATA | 3Gb/s | HUA722010CLA330 | 25C        | 1TB      | 3.5" | 7200 |
| Hitachi     | SATA | 3Gb/s | HUA72201        | A39C       | 1TB      | 3.5" | 7200 |
| Hitachi     | SATA | 3Gb/s | HDS722020ALA330 | A20N       | 2TB      | 3.5" | 7200 |
| Hitachi     | SATA | 3Gb/s | H7220AA30SUN20T | A2DZ       | 2TB      | 3.5" | 7200 |
| Hitachi     | SATA | 3Gb/s | HUA722020ALA330 | A00U       | 2TB      | 3.5" | 7200 |
| Hitachi     | SATA | 3Gb/s | HDS722020ALA330 | A20N       | 2TB      | 3.5" | 7200 |
| Hitachi     | SATA | 3Gb/s | HDT72010SLA360  | A3AA       | 1TB      | 3.5" | 7200 |
| Hitachi     | SAS  | 3Gb/s | HUS151473VLS300 | A230       | 73GB     | 3.5" | 15K  |
| Hitachi     | SATA | 3Gb/s | HDE721050SLA330 | GM40       | 500GB    | 3.5" | 7200 |
| Hitachi     | SATA | 3Gb/s | HDT721010SLA360 | A3AA       | 1TB      | 3.5" | 7200 |
| Seagate     | SATA | 6Gb/s | ST32000646SS    | 002        | 2TB      | 3.5" | SED  |
| Seagate     | SATA | 6Gb/s | ST33000651NS    | ZZZZ       | 3TB      | 3.5" | SED  |
| Seagate     | SATA | 6Gb/s | ST32000646NS    | ZZZZ       | 2TB      | 3.5" | SED  |
| Seagate     | SATA | 6Gb/s | ST33000650NS    | 0001       | 3TB      | 3.5" | 7200 |
| Seagate     | SATA | 6Gb/s | ST32000645NS    | 0001       | 2TB      | 3.5" | 7200 |
| Seagate     | SATA | 6Gb/s | ST2000NM0011    | SN03       | 2TB      | 3.5" | 7200 |
| Seagate     | SATA | 6Gb/s | ST1000NM0011    | SN03       | 1TB      | 3.5" | 7200 |
| Seagate     | SATA | 6Gb/s | ST500NM0011     | SN03       | 500GB    | 3.5" | 7200 |
| Seagate     | SATA | 6Gb/s | ST33000650NS    | ZZA6       | 3TB      | 3.5" | 7200 |
| Seagate     | SATA | 6Gb/s | ST3500410AS     | ZZATZZZZ   | 500GB    | 3.5" | 7200 |
| Seagate     | SATA | 3Gb/s | ST3250824AS     | H          | 250GB    | 3.5" | 7200 |

| Manufacture     | Type | Speed | Model              | FW version     | Capacity | Size | RPM      |
|-----------------|------|-------|--------------------|----------------|----------|------|----------|
| Seagate         | SATA | 3Gb/s | ST3500641NS        | S              | 500GB    | 3.5" | 7200     |
| Seagate         | SATA | 3Gb/s | ST3750640NS        | D              | 750GB    | 3.5" | 7200     |
| Seagate         | SATA | 3Gb/s | ST3750640NS        | 3QD1           | 750GB    | 3.5" | 7200     |
| Seagate         | SATA | 3Gb/s | ST3750840NS        | E              | 750GB    | 3.5" | 7200     |
| Seagate         | SATA | 3Gb/s | ST3160827AS        | 0003           | 160GB    | 3.5" | 7200     |
| Seagate         | SATA | 3Gb/s | ST3250620NS        | 3.AEE          | 250GB    | 3.5" | 7200     |
| Seagate         | SATA | 3Gb/s | ST31000340NS       | SN03/SN06      | 1TB      | 3.5" | 7200     |
| Seagate         | SATA | 3Gb/s | ST3160815AS        | 3.AAD          | 160GB    | 3.5" | 7200     |
| Seagate         | SATA | 3Gb/s | ST31000333AS       | CC1F           | 1TB      | 3.5" | 7200     |
| Seagate         | SATA | 3Gb/s | ST3750840AS        | 3.AAD          | 750GB    | 3.5" | 7200     |
| Seagate         | SATA | 3Gb/s | ST9500530NS        | SN02           | 500GB    | 2.5" | 7200     |
| Seagate         | SATA | 3Gb/s | ST980825AS         | 3.04           | 80GB     | 2.5" | 7200     |
| Seagate         | SATA | 3Gb/s | ST3250620NS        | 20.06C07       | 250GB    | 3.5" | 7200     |
| Seagate         | SATA | 3Gb/s | ST3250620NS        | 3.AEJ          | 250GB    | 3.5" | 7200     |
| Seagate         | SATA | 3Gb/s | ST3250620NS        | E              | 250GB    | 3.5" | 7200     |
| Seagate         | SATA | 3Gb/s | ST3750640NS        | .AEP           | 750GB    | 3.5" | 7200     |
| Seagate         | SATA | 3Gb/s | ST3500630NS        | W              | 500GB    | 3.5" | 7200     |
| Seagate         | SATA | 3Gb/s | ST3500641AS        | E              | 500GB    | 3.5" | 7200     |
| Seagate         | SATA | 3Gb/s | ST3500320NS        | SN05           | 500GB    | 3.5" | 7200     |
| Seagate         | SATA | 3Gb/s | ST3160827AS        | 3.42           | 160GB    | 3.5" | 7200     |
| Seagate         | SATA | 3Gb/s | ST3500641AS        | A002           | 500GB    | 3.5" | 7200     |
| Seagate         | SATA | 3Gb/s | ST380815AS         | C002           | 808GB    | 3.5" | 7200     |
| Seagate         | SATA | 3Gb/s | ST31000340NS       | SN06/SU09/SU0D | 1TB      | 3.5" | 7200     |
| Seagate         | SATA | 3Gb/s | ST32000644NS       | SN11           | 2TB      | 3.5" | 7200     |
| Seagate         | SATA | 3Gb/s | ST380013AS         | 3.18           | 80GB     | 3.5" | 7200     |
| Seagate         | SATA | 3Gb/s | ST3250824AS        | 3.AAH          | 250GB    | 3.5" | 7200     |
| Seagate         | SATA | 3Gb/s | ST3808110AS        | 3AAH           | 80GB     | 3.5" | 7200     |
| Seagate         | SATA | 3Gb/s | ST3160815AS        | D              | 160GB    | 3.5" | 7200     |
| Seagate         | SATA | 3Gb/s | ST3200540AS        | CC83           | 2TB      | 3.5" | 4K Media |
| Western Digital | SATA | 6Gb/s | WD6000HLHX         | 5G04           | 600GB    | 3.5" | 10K      |
| Western Digital | SATA | 6Gb/s | WD4500HLHX         | 5G04           | 450GB    | 3.5" | 10K      |
| Western Digital | SATA | 6Gb/s | WD3000HLHX         | 5G04           | 300GB    | 3.5" | 10K      |
| Western Digital | SATA | 6Gb/s | WD1500HLHX         | 5G04           | 150GB    | 3.5" | 10K      |
| Western Digital | SATA | 6Gb/s | WD1003FBYX-01Y7B0  | 1V01           | 1TB      | 3.5" | 7200     |
| Western Digital | SATA | 6Gb/s | WD6000BLHX         | 5G04           | 600GB    | 2.5" | 10K      |
| Western Digital | SATA | 6Gb/s | WD4500BLHX         | 5G04           | 450GB    | 2.5" | 10K      |
| Western Digital | SATA | 6Gb/s | WD3000BLHX         | 5G04           | 300GB    | 2.5" | 10K      |
| Western Digital | SATA | 6Gb/s | WD1500BLHX         | 5G04           | 150GB    | 2.5" | 10K      |
| Western Digital | SATA | 6Gb/s | WD5003ABYX-01WERA0 | 1S01           | 500GB    | 3.5" | 7200     |
| Western Digital | SATA | 3Gb/s | WD2002FYPS-02W3B0  | 1G01           | 2TB      | 3.5" | 5400     |
| Western Digital | SATA | 3Gb/s | WD2003FYYS-0       | 0D01           | 2TB      | 3.5" | 7200     |
| Western Digital | SATA | 3Gb/s | WD1503FYYS-0       | 0D01           | 1.5TB    | 3.5" | 7200     |
| Western Digital | SATA | 3Gb/s | WD2002FYPS0        | 5G04           | 2TB      | 3.5" | 5400     |
| Western Digital | SATA | 3Gb/s | WD10EADS11M        | 0A80           | 1TB      | 3.5" | 4K Media |
| Western Digital | SATA | 3Gb/s | WD5000ABPS-01ZZB0  | 1B01           | 500GB    | 3.5" | 5400     |
| Western Digital | SATA | 3Gb/s | WD1600YS           | 6C04           | 160GB    | 3.5" | 7200     |
| Western Digital | SATA | 3Gb/s | WD2000             |                | 200GB    | 3.5" | 7200     |
| Western Digital | SATA | 3Gb/s | WD2500YS-18S       | 6C07           | 250GB    | 3.5" | 7200     |
| Western Digital | SATA | 3Gb/s | WD2500YS-23S       | 6C04           | 250GB    | 3.5" | 7200     |
| Western Digital | SATA | 3Gb/s | WD500YS            | 2/E07          | 500GB    | 3.5" | 7200     |
| Western Digital | SATA | 3Gb/s | WD2500YS           | WCAN           | 250GB    | 3.5" | 7200     |
| Western Digital | SATA | 3Gb/s | WD1000FYPS-01ZKB0  | 1B01           | 1TB      | 3.5" | 7200     |
| Western Digital | SATA | 3Gb/s | WD5001ABYS-01TNA0  | 1B01           | 500GB    | 3.5" | 7200     |
| Western Digital | SATA | 3Gb/s | WD5000YS-01M       | 2E07           | 500GB    | 3.5" | 7200     |

| Manufacture     | Type | Speed | Model             | FW version | Capacity | Size | RPM  |
|-----------------|------|-------|-------------------|------------|----------|------|------|
| Western Digital | SATA | 3Gb/s | WD5002ABYS-01B1B0 | 3B03       | 500GB    | 3.5" | 7200 |
| Western Digital | SATA | 3Gb/s | WD3000HLFS-0      | 4V01       | 300GB    | 3.5" | 10K  |
| Western Digital | SATA | 3Gb/s | WD1002FBYS-0      | 0C05       | 1TB      | 3.5" | 7200 |
| Western Digital | SATA | 3Gb/s | WD3202ABYS        | 3B03       | 320GB    | 3.5" | 7200 |
| Western Digital | SATA | 3Gb/s | WD5000ABYS-0      | 1C01       | 500GB    | 3.5" | 7200 |
| Western Digital | SATA | 3Gb/s | WD1600AABS        | 6H05       | 600GB    | 3.5" | 7200 |
| Western Digital | SATA | 3Gb/s | WD800JD           | 1E01       | 80GB     | 3.5" | 7200 |
| Western Digital | SATA | 3Gb/s | WD1200JS          | 1C03       | 120GB    | 3.5" | 7200 |
| Western Digital | SATA | 3Gb/s | WD740GD-00FL      | 8F33       | 740GB    | 3.5" | 10K  |
| Western Digital | SATA | 3Gb/s | WD1600JS-00M      | 1C03       | 160GB    | 3.5" | 7200 |
| Western Digital | SATA | 3Gb/s | WD4000YR          | 6A01       | 400GB    | 3.5" | 7200 |
| Western Digital | SATA | 3Gb/s | WD2500JS          | 1C03       | 250GB    | 3.5" | 7200 |
| Western Digital | SATA | 3Gb/s | WD4000YD-00K      | 6G11       | 400GB    | 3.5" | 7200 |
| Western Digital | SATA | 3Gb/s | WD4000YD-00K      | 6A01       | 400GB    | 3.5" | 7200 |
| Western Digital | SATA | 3Gb/s | WD5000KS          | 2E06       | 500GB    | 3.5" | 7200 |
| Western Digital | SATA | 3Gb/s | WD7500AY          | 4G30       | 750GB    | 3.5" | 7200 |
| Western Digital | SATA | 3Gb/s | WD7500AAKS-0      | 4G30       | 750GB    | 3.5" | 7200 |
| Western Digital | SATA | 3Gb/s | WD1003FBYX        | 1S01       | 1TB      | 3.5" | 7200 |
| Western Digital | SATA | 3Gb/s | WD5003ABYX        | 1V01       | 500GB    | 3.5" | 7200 |
| Western Digital | SATA | 3Gb/s | WD1600AAJS        | 6H05       | 160GB    | 3.5" | 7200 |
| Western Digital | SATA | 3Gb/s | WD1600JS-75NCB3   | 2E04       | 160GB    | 3.5" | 7200 |
| Western Digital | SATA | 3Gb/s | WD1600JS          | 6C04       | 160GB    | 3.5" | 7200 |