**Server WHQL Testing Services**

**Enterprise Platforms and Services Division**

# Intel® Server Board S3420GPRX

# Intel® Server System SR1630GPRX

# Intel® Server System SR1630HGPRX

## Server Test Submission (STS) Report

### For the Microsoft® Windows® Logo Program (WLP)

Rev 1.0

**Mar. 22nd, 2010**

This report describes the Intel® Server Board S3420GPRX Windows* Logo Program test run conducted by Intel Enterprise Platforms and Services Division (EPSD).

**Purpose of this WLP Submission:**

System First Time submission for the Microsoft* Designed for Windows Logo submission for the Intel® Server Board S3420GPRX in None RAID configuration.

**Windows Server 2008 R2 Submission Logo ID: 1393421**

| Submission Type: | Reason for test run | Check one |
|---|---|---|
| First Time Submission | Initial Microsoft Designed for Windows logo submission.  New product submission. | ☑ |

| System Update | Hardware update.  (For example, update submission test run with new processor speeds.) | ☐ |
|---|---|---|
| BIOS Update | BIOS and/or Firmware update.  (For example, update submission test run with new BIOS to support additional processor speeds.) | ☐ |
| OS Update | OS update. (For example, update submission test run to add Microsoft Designed for Windows Server 2008 logo to product.) | ☐ |

# Revision History and Disclaimers

| Revision History | | |
|---|---|---|
| **Revision** | **Date** | **Comments** |
| 1.0 | 03/22/2010 | Internal draft of the STS Report for Windows Server 2008 R2 Submission for Intel® Server Board S3420GPRX configured in None RAID mode |
| | | |
| | | |

# Contents

# Introduction

This report provides an overview of the testing conducted on the Intel® Server Board S3420GPRX by Intel EPSD and provides details about this testing run.

## Overview of Contents

| Section | Content |
|---|---|
| Introduction | Brief descriptions of the sections in the report.  Table listing terms and definitions. |
| Server Product Submission Information | Submission information, ID # and final server board configuration upon completion of WLP including HW, Driver version, BIOS version, and Board AA number |
| DTM | All DTM tests used during testing |
| Errata and Contingencies | All Microsoft* errata or contingencies used during testing |

## Terms and Definitions

| Term | Definitions |
|---|---|
| EPSD | Enterprise Platforms and Services Division |
| HCL | Windows Hardware Compatibility List.  Changed to Windows Server Catalogue. You can view the catalogue at: http://www.microsoft.com/windows/catalog/server/ |
| DTM | Driver Test manager.  For latest Server DTM tests visit: http://www.microsoft.com/whdc/hwtest/system/default.mspx |
| STS | Server Test Submission Report published by EPSD |
| WHDC | Windows* Hardware and Driver Central.  Provides technical information, development and testing kits, newsletters and support information.  http://www.microsoft.com/whdc/default.mspx |
| WHOS | Windows Hardware Online Service – Secure online web site used to submit products for logo qualification and review submission history.  https://winqual.microsoft.com/ |
| WHQL | Windows* Hardware Qualification Lab.  For more information visit the WHDC home page at: http://www.microsoft.com/whdc/whql/default.mspx |
| WLP | Windows Logo Program.  For further information see: http://www.microsoft.com/whdc/winlogo/default.mspx |
| WTS | Workstation Test Submission Report published by EPSD |

# Server Board Submission Information

## Intel Server Board Submission Report: Completion of WLP

Data in this section reflects system submission information at the time of WLP Update submission.

## Submission Information

| Submission ID | | |
|---|---|---|
| Submission ID / Master ID | **1393421** | |
| **Submission Type** | | |
| | **Check Submission Type** | **Comments** |
| First-Time Hardware and Driver Test Submission | ☑ | |
| System Update Test Submission | ☐ | |
| **Product Category** | | |
| Hardware Category | PC System or Server | |
| Operating System family | Windows Server 2008 R2 | |
| **Product Detail** | | |
| **General Product Information** | | |
| Equipment Type | Server | |
| Primary Target Market | Business/Corporate | |
| Compliance | All applicable requirements | |
| **Characterization (optional)** | | |
| | **Check appropriate options** | **Comments** |
| Web Server | ☑ | |
| SQL Database Server | ☑ | |
| File Server | ☑ | |

## Server Board Configuration Information

| Processor | |
|---|---|
| Quantity | 1 (physical processors installed) |
| Family/Model | Intel$^{®}$ Dual Core i3 Processor series |
| Speed | 3.06, 2.93, 2.80 and 2.26 GHz |
| **System Memory** | |
| Amount Installed | 16 GB |
| Memory Type | DDR3 |
| **Power Management** | |
| ACPI Sleep States (S1, S2, S3, S4) | S1 |
| **Server Board Product** | |
| System uses logo'd motherboard | NO (Server boards are <u>NOT</u> eligible for logo under the Microsoft* Motherboard logo program) |
| Board AA #/Fab | PBA: E77063-301 |
| Board Manufacturer | Intel Corporation |
| Board Model | Intel$^{®}$ Server Board S3420GPRX |
| Northbridge* Chipset Manufacturer | N/A |
| Northbridge Chipset Model | N/A |
| Southbridge* Chipset Manufacturer | Intel Corporation |
| Southbridge Chipset Model | Intel$^{®}$ 3420 PCH |
| **BIOS** | |
| BIOS Manufacturer | AMI* |
| BIOS Version | S3420GP.86B.01.00.0037 |
| BIOS Date | 01/30/2010 |
| BIOS URL (For Updates) | http://support.intel.com/support/motherboards/server/S3420GP |

| Bus Types | | | |
|---|---|---|---|
| | **Check all that Apply** | | **Check all that Apply** |
| PS/2 | ☐ | AGP* | ☐ |
| 1394 | ☐ | PCCard* (16-bit) | ☐ |
| CF (Compact Flash) | ☐ | CardBus* (32-bit) | ☐ |
| PCI | ☐ | USB | ☐ |
| Mini-PCI | ☐ | USB 2.0 | ☑ |
| AMR | ☐ | InfiniBand* | ☐ |
| ACR | ☐ | Bluetooth* | ☐ |
| COM (Serial) | ☑ | PCI Express | ☑ |
| **Integrated Components** | | | |
| | **Check all that Apply** | | **Check all that Apply** |
| Audio | ☐ | Display | ☑ |
| IDE | ☐ | Networking | ☑ |
| SCSI | ☐ | RAID | ☑ |
| Modem | ☐ | Bluetooth* | ☐ |

# Onboard Integrated Devices and Drivers

Data in this section reflects system configuration at the time of WLP submission. The latest drivers for the Intel® Server Board S3420GPRX are available for download at:

http://support.intel.com/support/motherboards/server/S3420GP

| Technology | OS | Version |
|---|---|---|
| **Intel® S3420 PCH Chipset** | **Windows Server 2008 R2** | Embedded |
| **LAN** <br> Intel 82574L and Intel 82576EB Server Network Connection Supports 10/100/1000 | Windows Server 2008 R2 | 15.0 <br> 15.0 |
| **Display** <br> Server Engine iBMC video controller | Windows Server 2008 R2 | Embedded |

# Product Data for HCL: Completion of WLP

Data in this section reflects product data for HCL at time of WLP submission.

## Server Board Submission Information

| Product Data | |
|---|---|
| Product Name | Intel® Server Board S3420GPRX |
| Additional Product Names | Intel® Server System SR1630GPRX |
| | Intel® Server System SR1630HGPRX |
| **Supported Platforms** | |

| | Check Tested | Comments |
|---|---|---|
| Windows Server 2003 family | ☐ | |
| Windows Server 2003 x64 family | ☐ | |
| Windows Server 2008 family | ☑ | |
| Windows Server 2008 x64 family | ☑ | |

# Hardware Compatibility Tests Used

Microsoft\* Windows Hardware Driver Central Server Testing Home Page:
http://www.microsoft.com/whdc/hwtest/system/default.mspx.

Please check this website regularly for test kit updates.

| Operating Systems | Notes | Hardware Compatibility Tests (HCT) |
|---|---|---|
| Windows Server 2008 R2 | DTM 1.5 Test Procedures for Systems, Servers and Cluster Servers | DTM 1.5 Test Kit |
| | Logo'd Components Index Full Install | Logo'd Components Index Full Install |

# Errata and Contingencies

Microsoft* System DTM Errata list is available at:

https://winqual.microsoft.com/EC/

| Operating System | Identification Number | Title |
|---|---|---|
| Windows Server 2008 R2 | | *See Testing Exceptions section below* |
| | | |
| | | |

## Submission Readme File

Effective May 1, 2002, the new Microsoft standardized Readme form will be required for all hardware submissions that include any of the following testing exceptions:

- Test failures
- Tests not run
- Missing test logs
- Inconclusive test results

All testing exceptions must be identified with a valid Errata ID, Incident ID, or Contingency ID provided by WHQL.  The new Microsoft standardized Readme file is available for download at:

http://www.microsoft.com/whdc/winlogo/WLK/default.mspx

## Testing Exceptions for S3420GPRX Windows Server 2008 R2

Data in this section reflects product data and test exceptions listed in section 2 of the S3420GPRX Readme file at time of WLP First-Time submission ID Number 1393421

| **Operating system** (Windows XP, Windows 2000, etc.) | **Failure type** (Contingency, Errata, Incident) | **ID number** |
|---|---|---|
| Windows Server 2008 R2 | | |
| **Failing test name** | | |
| **Applicable error message** (Type **N/A** if the error message or failing text is excessive or if there is no text) | | |
| **Additional information** (for example, test system in a multiple system configuration) | *no errata included with this submission* | |

## Additional Information

No additional information entered in section 3 of the S3420GPRX Submission Readme file at time of WLP submission ID 1393421

# Appendix A – Submission History

Microsoft "Designed for Windows*" logo submission history for the Intel® Server Board S3420GPRX

| Submission ID | Type | Date | OS Qualified | Processor Speeds | Board Revision | BIOS Version |
|---|---|---|---|---|---|---|
| 1393421 | First-Time | 3/22/09 | Windows Server **2008 R2** | 3.06,2.93,2.80 and 2.26 GHz | 301 | S3420GP.86B.01.00.0037 |