



Server WHQL Testing Services  
Enterprise Platforms and Services Division  
**Intel<sup>®</sup> Server Board S3420GPLX**

---

**Server Test Submission (STS) Report**  
**For the Microsoft<sup>®</sup> Windows<sup>®</sup> Logo Program (WLP)**

Rev 1.0

**Mar. 22<sup>th</sup>, 2010**

This report describes the Intel<sup>®</sup> Server Board S3420GPLX Windows<sup>®</sup> Logo Program test run conducted by Intel<sup>®</sup> Enterprise Platforms and Services Division (EPSD).

**Purpose of this WLP Submission:**

System First Time submission for the Microsoft<sup>®</sup> Designed for Windows<sup>®</sup> Logo submission for the Intel<sup>®</sup> Server Board S3420GPLX in None RAID configuration.

**Windows<sup>®</sup> Server 2003 SP2 Submission Logo ID: 1396480 (S3420GPLX MB)**

Submission Type:	Reason for test run	Check one
First Time Submission	Initial Microsoft <sup>®</sup> Designed for Windows <sup>®</sup> logo submission. New product submission.	<input checked="" type="checkbox"/>

System Update	Hardware update. (For example, update submission test run with new processor speeds.)	<input type="checkbox"/>
BIOS Update	BIOS and/or Firmware update. (For example, update submission test run with new BIOS to support additional processor speeds.)	<input type="checkbox"/>
OS Update	OS update. (For example, update submission test run to add Microsoft® Designed for Windows® Server 2008 logo to product.)	<input type="checkbox"/>

## Revision History and Disclaimers

---

Revision History		
Revision	Date	Comments
1.0	03/22/2010	Internal draft of the STS Report for Windows® Server 2003 SP2 Submission for Intel® Server Board S3420GPLX configured in None RAID mode

THIS TEST REPORT IS PROVIDED "AS IS" WITH NO WARRANTIES WHATSOEVER, INCLUDING ANY WARRANTY OF MERCHANTABILITY, NONINFRINGEMENT FITNESS FOR ANY PARTICULAR PURPOSE, OR ANY WARRANTY OTHERWISE ARISING OUT OF ANY PROPOSAL, SPECIFICATION OR SAMPLE.

Information in this document is provided in connection with Intel® products. No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document or by the sale of Intel products. Except as provided in Intel's Terms and Conditions of Sale for such products, Intel assumes no liability whatsoever, and Intel disclaims any express or implied warranty, relating to sale and/or use of Intel products including liability or warranties relating to fitness for a particular purpose, merchantability, or infringement of any patent, copyright or other intellectual property right. Intel products are not intended for use in medical, life saving, or life sustaining applications.

Intel retains the right to make changes to its test specifications at any time, without notice.

The hardware vendor remains solely responsible for the design, sale and functionality of its product, including any liability arising from product infringement or product warranty.

Intel, Pentium, Itanium and Xeon are trademarks or registered trademarks of Intel Corporation or its subsidiaries in the United States and other countries.

\* Other names and brands may be claimed as the property of others.

Copyright © 2010, Intel Corporation. All rights reserved.

# Contents

---

<b>Revision History and Disclaimers.....</b>	<b>2</b>
<b>Introduction .....</b>	<b>4</b>
Overview of Contents .....	4
Terms and Definitions.....	4
<b>Server Board Submission Information.....</b>	<b>5</b>
Intel® Server Board Submission Report: Completion of WLP.....	5
Submission Information .....	5
Submission ID.....	5
Submission Type .....	5
Product Category.....	5
Product Detail .....	5
General Product Information .....	5
Characterization (optional) .....	5
Server Board Configuration Information.....	6
Processor.....	6
System Memory .....	6
Power Management.....	6
BIOS.....	6
Bus Types .....	7
Integrated Components .....	7
Onboard Integrated Devices and Drivers.....	7
Product Data for HCL: Completion of WLP.....	7
Product Data.....	8
<b>Hardware Compatibility Tests Used .....</b>	<b>9</b>
<b>Errata and Contingencies.....</b>	<b>10</b>
Submission Readme File.....	10
Testing Exceptions for S3420GPLX Windows® Server 2003 SP2 .....	11
Additional Information.....	11
<b>Appendix A – Submission History.....</b>	<b>12</b>

## Introduction

# Introduction

---

This report provides an overview of the testing conducted on the Intel® Server Board S3420GPLX 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: <a href="http://www.microsoft.com/windows/catalog/server/">http://www.microsoft.com/windows/catalog/server/</a>
DTM	Driver Test manager. For latest Server DTM tests visit: <a href="http://www.microsoft.com/whdc/hwtest/system/default.aspx">http://www.microsoft.com/whdc/hwtest/system/default.aspx</a>
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. <a href="http://www.microsoft.com/whdc/default.aspx">http://www.microsoft.com/whdc/default.aspx</a>
WHOS	Windows® Hardware Online Service – Secure online web site used to submit products for logo qualification and review submission history. <a href="https://winqual.microsoft.com/">https://winqual.microsoft.com/</a>
WHQL	Windows® Hardware Qualification Lab. For more information visit the WHDC home page at: <a href="http://www.microsoft.com/whdc/whql/default.aspx">http://www.microsoft.com/whdc/whql/default.aspx</a>
WLP	Windows® Logo Program. For further information see: <a href="http://www.microsoft.com/whdc/winlogo/default.aspx">http://www.microsoft.com/whdc/winlogo/default.aspx</a>
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	1396480	
Submission Type		
	Check Submission Type	Comments
First-Time Hardware and Driver Test Submission	<input checked="" type="checkbox"/>	
System Update Test Submission	<input type="checkbox"/>	
Product Category		
Hardware Category	PC System or Server	
Operating System family	Windows® Server 2003 SP2 family	
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	<input checked="" type="checkbox"/>	
SQL Database Server	<input checked="" type="checkbox"/>	
File Server	<input checked="" type="checkbox"/>	

## Server Board Submission Information

### Server Board Configuration Information

Processor	
Quantity	1 (physical processors installed)
Front Side Bus Speed	QPI: 5.86 GT/s (Giga transfers per sec)
Family/Model	Intel® Core™ i3 Desktop Processor
Speed	2.93 and 3.06GHz
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: E51974-401
Board Manufacturer	Intel Corporation
Board Model	Intel® Server Board S3420GPLX
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.01.00.0040
BIOS Date	02/11/2010
BIOS URL (For Updates)	<a href="http://www.intel.com/Products/Server/Motherboards/S3420GP/S3420GP-overview.htm">http://www.intel.com/Products/Server/Motherboards/S3420GP/S3420GP-overview.htm</a>

## Server Board Submission Information

Bus Types				
	Check all that Apply		Check all that Apply	
PS/2	<input type="checkbox"/>	AGP*	<input type="checkbox"/>	
1394	<input type="checkbox"/>	PCCard* (16-bit)	<input type="checkbox"/>	
CF (Compact Flash)	<input type="checkbox"/>	CardBus* (32-bit)	<input type="checkbox"/>	
PCI	<input checked="" type="checkbox"/>	USB	<input type="checkbox"/>	
Mini-PCI	<input type="checkbox"/>	USB 2.0	<input checked="" type="checkbox"/>	
AMR	<input type="checkbox"/>	InfiniBand*	<input type="checkbox"/>	
ACR	<input type="checkbox"/>	Bluetooth*	<input type="checkbox"/>	
COM (Serial)	<input checked="" type="checkbox"/>	PCI Express	<input checked="" type="checkbox"/>	
Integrated Components				
	Check all that Apply		Check all that Apply	
Audio	<input type="checkbox"/>	Display	<input checked="" type="checkbox"/>	
IDE	<input type="checkbox"/>	Networking	<input checked="" type="checkbox"/>	
SCSI	<input type="checkbox"/>	RAID	<input checked="" type="checkbox"/>	
Modem	<input type="checkbox"/>	Bluetooth*	<input type="checkbox"/>	

### 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 S3420GPLX are available for download at:

<http://www.intel.com/Products/Server/Motherboards/S3420GP/S3420GP-overview.htm>

Technology	OS	Version
Intel® S3420 PCH Chipset	Windows® Server 2003 SP2	9.1.1.1014
<b>LAN</b> Intel® 82574L and Intel 82578DM Server Network Connection Supports 10/100/1000	Windows® Server 2003 SP2	14.2
<b>Display</b> Silicon motion SM712 video controller	Windows® Server 2003 SP2	WMD20090223

### 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 S3420GPLX	
Additional Product Names		
Supported Platforms		
	Check Tested	Comments
Windows® Server 2003 family	<input checked="" type="checkbox"/>	
Windows® Server 2003 x64 family	<input checked="" type="checkbox"/>	
Windows® Server 2008 family	<input type="checkbox"/>	
Windows® Server 2008 R2 x64 family	<input type="checkbox"/>	



## 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 2003 SP2	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 2003 SP2		<i>See Testing Exceptions section below</i>

## 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.msp>

**Testing Exceptions for S3420GPLX Windows® Server 2003 SP2**

Data in this section reflects product data and test exceptions listed in section 2 of the S3420GPLX Readme file at time of WLP First-Time submission ID Number 1396480 (S3420GPLX MB).

**Additional Information**

No additional information entered in section 3 of the S3420GPLX Submission Readme file at time of WLP submission ID 1396480 (S3420GPLX MB).

## Appendix A – Submission History

# Appendix A – Submission History

---

Microsoft® “Designed for Windows®” logo submission history for the Intel® Server Board S3420GPLX

Submission ID	Type	Date	OS Qualified	Processor Speeds	Board Revision	BIOS Version
1396480 (S3420GPLX MB)	First-Time	03/22/10	Windows® Server <b>2003 SP2</b>	2.93 and 3.06GHz	401	S3420GP.86B.01.00.0040