

# Server Red Hat<sup>®</sup> Testing Services Enterprise Platforms and Services Division Intel<sup>®</sup> Server Board S3420GPRX

# Server Test Submission (STS) Report For the Red Hat<sup>®</sup> Enterprise Linux Certification

**Rev 1.0** 

Apr. 27<sup>th</sup>, 2010

This report describes the Intel<sup>®</sup> Server Board S3420GPRX Red Hat<sup>®</sup> Enterprise Linux 5 update 4 certification test run conducted by Intel<sup>®</sup> Enterprise Platforms and Services Division (EPSD).

#### **Purpose of this Submission:**

System First Time submission for the Red Hat<sup>®</sup> Enterprise Linux 5 Update 4 certification submission for the Intel<sup>®</sup> Server Board S3420GPRX in None RAID configuration.

Red Hat® Enterprise Linux 5 update 4 Submission ID: 577726 (S3420GPRX MB)

Submission Type:	Reason for test run	Check one
First Time	Initial Red Hat <sup>®</sup> Enterprise Linux 5 Update 4 certification submission. New	$\checkmark$

Submission	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 new revision of Red Hat <sup>®</sup> Enterprise Linux certification to product.)	

## **Revision History and Disclaimers**

Revision History			
Revision	Revision Date Comments		
1.0 4/27/2010 Internal draft of the STS Report for Red Hat <sup>®</sup> Enterprise Linux 5 update 4 certification Submission for Intel <sup>®</sup> Server Board S3420GPRX configured in None RAID mode			

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## Introduction

This report provides an overview of the testing conducted on the Intel<sup>®</sup> Server Board S3420GPRX by Intel<sup>®</sup> 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 the Red Hat <sup>®</sup> Enterprise Linux certification test run including HW, Driver version, BIOS version, and Board AA number

#### **Terms and Definitions**

Term	Definitions
EPSD	Enterprise Platforms and Services Division
STS	Server Test Submission Report published by EPSD
WTS	Workstation Test Submission Report published by EPSD

## **Server Board Submission Information**

#### **Intel Server Board Submission Report:**

Data in this section reflects system submission information at the time of Red Hat<sup>®</sup> Enterprise Linux 5 update 4 certification submission.

#### **Submission Information**

Submission ID			
Submission ID / Master ID	577726		
Submission Type			
	Check Submission Type	Comments	
First-Time Hardware and Driver Test Submission	$\overline{\mathbf{Q}}$		
System Update Test Submission			
Product Category			
Hardware Category	PC System or Server		
Operating System family	Red Hat <sup>®</sup> Enterprise Linux 5 update 4		
Product Detail			
<b>General Product Information</b>			
Equipment Type	Server		
Primary Target Market	Business/Corporate		
Compliance	All applicable requirements		
Characterization (optional)			
	Check appropriate options	Comments	
Web Server			
SQL Database Server	$\checkmark$		
File Server			

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## **Server Board Configuration Information**

Processor		
Quantity	1 (physical processors installed)	
Front Side Bus Speed	QPI: 5.86 GT/s (Giga transfers per sec) / 6.40 GT/s (Giga transfers per sec)	
Family/Model	Intel <sup>®</sup> Core <sup>™</sup> i3 Desktop Processor / Intel <sup>®</sup> Xeon Quad-core Processor X3400 series	
Speed	2.93 and 3.06GHz / 1.86, 2.4, 2.53, 2.66, 2.80, and 2.93 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	
Board AA #/Fab	PBA: E77063-301	
Board Manufacturer	Intel Corporation	
Board Model	Intel <sup>®</sup> 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 <sup>®</sup>	
BIOS Version	S3420GP.86B.01.00.0037	
BIOS Date	1/19/2009	
BIOS URL (For Updates)	http://www.intel.com/Products/Server/Motherboards/S3420GP/S3420GP-overview.htm	

Bus Types			
	Check all that Apply		Check all that Apply
PS/2		AGP*	
1394		PCCard* (16-bit)	
CF (Compact Flash)		CardBus* (32-bit)	
PCI	$\checkmark$	USB	
Mini-PCI		USB 2.0	$\square$
AMR		InfiniBand*	
ACR		Bluetooth*	
COM (Serial)	<b></b>	PCI Express	$\overline{\mathbf{Q}}$
Integrated Components			
	Check all that Apply		Check all that Apply
Audio		Display	$\overline{\checkmark}$
IDE		Networking	$\square$
SCSI		RAID	$\square$
Modem		Bluetooth*	

#### **Onboard Integrated Devices and Drivers**

Data in this section reflects system configuration at the time of Red Hat<sup>®</sup> Enterprise Linux 5 update 4 certification submission. The latest drivers for the Intel<sup>®</sup> Server Board S3420GPRX are available for download at:

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

Technology	os	Version
Intel <sup>®</sup> S3420 PCH Chipset	Red Hat <sup>®</sup> Enterprise Linux 5 update 4	Embedded
LAN Intel® 82574L and Intel® 82578DM Server Network Connection Supports 10/100/1000	Red Hat <sup>®</sup> Enterprise Linux 5 update 4	Embedded

#### **Product Data for Submission:**

Data in this section reflects product data at time of Red Hat® Enterprise Linux 5 update 4 certification submissions.

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#### **Server Board Submission Information**

Product Data			
Product Name	Intel <sup>®</sup> Server Board	I S3420GPRX	
Additional Product Names			
Supported Platforms			
	Check Tested	Comments	
Red Hat <sup>®</sup> Enterprise Linux 5 update 4	<b>V</b>		

# **Hardware Compatibility Tests Used**

Please check this website regularly for test kit updates.

Operating Systems	Notes	Hardware Compatibility Tests
Red Hat <sup>®</sup> Enterprise Linux 5 update 4	Test Suite GA (V7) Test Procedures for Systems, Servers and Cluster Servers	Test Suite GA (V7) Test Kit
	Logo'd Components Index Full Install	Logo'd Components Index Full Install

# **Errata and Contingencies**

Operating System	Identification Number	Title
Red Hat <sup>®</sup> Enterprise Linux 5 update 4	N/A	N/A

# **Appendix A – Submission History**

Red Hat<sup>®</sup> Enterprise Linux 5 Update 4 submission history for the Intel<sup>®</sup> Server Board S3420GPRX

Submission ID	Туре	Date	OS Qualified	Processor Speeds	Board Revision	BIOS Version
577726 (S3420GPRX MB)	First- Time	4/27/2010	Red Hat <sup>®</sup> Enterprise Linux 5 update 4 32bit and 64bit	2.93 and 3.06GHz / 1.86, 2.4, 2.53, 2.66, 2.80, and 2.93 GHz	301	S3420GP.86B.01.00.0037