



Server Red Hat® Testing Services
Enterprise Platforms and Services Division
Intel® Server Board S3420GPV

Server Test Submission (STS) Report
For the Red Hat® Enterprise Linux Certification

Rev 1.0

Mar. 8th, 2010

This report describes the Intel® Server Board S3420GPV Red Hat® Enterprise Linux 5 update 4 certification test run conducted by Intel® Enterprise Platforms and Services Division (EPSD).

Purpose of this Submission:

System First Time submission for the Red Hat® Enterprise Linux 5 update 4 certification submission for the Intel® Server Board S3420GPV in None RAID configuration.

Red Hat® Enterprise Linux 5 update 4 Submission ID: 560555 (S3420GPV MB)

Submission Type:	Reason for test run	Check one
First Time Submission	Initial Red Hat® Enterprise Linux 5 update 4 certification 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 new revision of Red Hat® Enterprise Linux certification to product.)	<input type="checkbox"/>

Revision History and Disclaimers

Revision History		
Revision	Date	Comments
1.0	3/8/2010	Internal draft of the STS Report for Red Hat® Enterprise Linux 5 update 4 certification Submission for Intel® Server Board S3420GPV configured in None RAID mode

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Contents

Revision History and Disclaimers.....	2
Introduction	4
Overview of Contents	4
Terms and Definitions.....	4
Server Board Submission Information.....	5
Intel Server Board Submission Report:.....	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 Submission:.....	7
Product Data.....	8
Hardware Compatibility Tests Used	9
Errata and Contingencies.....	10
Appendix A – Submission History.....	11

Introduction

Introduction

This report provides an overview of the testing conducted on the Intel® Server Board S3420GPV 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 the Red Hat® 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® Enterprise Linux 5 update 4 certification submission.

Submission Information

Submission ID		
Submission ID / Master ID	560555	
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	Red Hat® Enterprise Linux 5 update 4	
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) / 6.40 GT/s (Giga transfers per sec)
Family/Model	Intel® Core™ i3 Desktop Processor / Intel® 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: E80883-103
Board Manufacturer	Intel Corporation
Board Model	Intel® Server Board S3420GPV
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.01.00.0035
BIOS Date	12/17/2009
BIOS URL (For Updates)	http://www.intel.com/Products/Server/Motherboards/S3420GP/S3420GP-overview.htm

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 Red Hat® Enterprise Linux 5 update 4 certification submission. The latest drivers for the Intel® Server Board S3420GPV are available for download at:

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

Technology	OS	Version
Intel® S3420 PCH Chipset	Red Hat® Enterprise Linux 5 update 4	Embedded
LAN Intel® 82574L and Intel® 82578DM Server Network Connection Supports 10/100/1000	Red Hat® Enterprise Linux 5 update 4	Embedded
Display Silicon motion SM712 video controller	Red Hat® 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.

Server Board Submission Information

Product Data		
Product Name	Intel® Server Board S3420GPV	
Additional Product Names		
Supported Platforms		
	Check Tested	Comments
Red Hat® Enterprise Linux 5 update 4	<input checked="" type="checkbox"/>	

Hardware Compatibility Tests Used

Please check this website regularly for test kit updates.

Operating Systems	Notes	Hardware Compatibility Tests
Red Hat® 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® Enterprise Linux 5 update 4	N/A	N/A

Appendix A – Submission History

Red Hat® Enterprise Linux 5 Update 4 submission history for the Intel® Server Board S3420GPV

Submission ID	Type	Date	OS Qualified	Processor Speeds	Board Revision	BIOS Version
560555 (S3420GPV MB)	First-Time	3/8/2010	Red Hat® 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	103	S3420GP.86B.01.00.0035