



Monthly Specification Update

Intel® Server Board S1200V3RPL

Intel® Server Board S1200V3RPS

Intel® Server Board S1200V3RPO

Intel® Server Board S1200V3RPM

Intel® Server System R1304RPSSFBN

Intel® Server System R1304RPOSHBN

Intel® Server System R1208RPOSHOR

Intel® Server System R1208RPMSHOR

Intel® Server System R1304RPMSHOR

Intel® Server System P4308RPLSHDR

Intel Order Number H12643-001



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Enterprise Platforms and Services Marketing

Revision History

Date	Modifications
June, 2013	Initial release.
July, 2013	No update
August, 2013	No update
September, 2013	Update Errata 14, Errata 15

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The Intel products specified may contain design defects or errors known as errata that may cause the product to deviate from the published specifications. Current characterized errata are documented in this Specification Update.

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Preface

This document communicates product Errata and Documentation Changes and Corrections for the following Intel Server Products:

- Intel® Server Board S1200V3RPL/S1200V3RPS/S1200V3RPO/S1200V3RPM
- Intel® Server System R1304RPSSFBN/R1304RPOSHBN/R1208RPOSHOR/R1208RPMSHOR/R1304RPMSHOR
- Intel® Server System P4308RPLSHDN

The items communicated in this document are defined as follows:

Documentation Changes include typos, errors, or omissions from the current published specifications. These changes will be incorporated in the next release of the specifications.

Specification Changes are modifications to the current published specifications for a given product. These include typos, errors, or omissions. Specified changes will be incorporated in the next release of the document.

Specification Clarifications describe supported features or functions in greater detail or further highlight their impact to a complex design requirement. These clarifications will be incorporated in the next release of the document.

Errata are design defects or deviations from current published specifications for a given product. Published errata may or may not be corrected. Hardware and software designed to be used with any given processor stepping must assume that all errata documented for that processor stepping are present on all devices.

Summary Tables of Changes

The following tables provide an overview of known errata and known document changes that apply to the specified Intel Server Products. The tables use the following notations:

Doc Intel intends to update the appropriate documentation in a future revision.

Fix Intel intends to correct this erratum.

Fixed This erratum has been corrected.

No Fix There are no plans to correct this erratum.

Shaded This erratum is new or has been modified from the previous specification update.

Table 1. Errata Summary

No.	Plans	Description of Errata
1.	Fix	Linux* Operating Systems are not supported on RSTe mode.
2.	Fix	VMWare* ESXi 5.1.0 cannot be installed successfully if VT or VT-d option is enabled in BIOS.
3.	Fix	There are assert event logs for SPS FW Health sensor 0x17 when one power supply cord is unplugged.
4.	Fix	Redhat* Enterprise Linux 6 Update4 with KVM x64 uEFI ESRTII RAID 5 installation fails.
5.	Fix	SuSE* SLES10 SP4 with XEN & KVM x32& x64 cannot find hard drive in ENHANCED and COMPATIBILITY mode.
6.	Fix	No video display from display port if 64-bit MMIO is enabled in BIOS.
7.	No Fix	Some monitors cannot work with Intel® Server Board S1200V3RPM display port during POST.
8.	Fix	On some motherboards, SEL log is not cleared from the manufactory.
9.	Fix	Without rebooting after USB 3.0 driver is installed, using syscfg to change boot order cannot work in Windows* Operating System.
10.	No Fix	When installing Redhat* Linux 6 Update 4 with USB device attached, the USB device cannot work.
11.	Fix	500MB memory is reserved in BIOS.
12.	No Fix	The power supply without C6/C7 function may not work with Intel® Server Board S1200V3RP.
13.	No Fix	The USB device cannot be removed when installing Windows* operating system.
14.	Fix	There will be an error of Processor 1 P1 MTT after installing VMware* ESXi 5.1 on the Intel® Server Board S1200V3RP
15.	No Fix	After installing Windows 2008* R2 SP1 on the Intel® Server Board S1200V3RP, the VM cannot be started when a RemoteFX* 3D virtual graphic card is installed in the VM of Hyper-V

Table 2. Documentation Changes

No.	Plans	Description of Documentation Change
1.		

The following sections provide in-depth descriptions of each erratum / documentation change indicated in the tables above. The errata and documentation change numbers referenced in the following sections correspond to the numbers in the tables above.

Errata

1. Linux* Operating Systems are not supported on RSTe mode

Problem	The Linux* Operating Systems including Redhat* Linux and Suse* Linux cannot be installed successfully on RSTe mode.
Implication	The RSTe mode cannot work on Linux* OS.
Status	This issue may be fixed in future driver or BIOS release.
Workaround	No.

2. VMWare* ESXi 5.1.0 cannot be installed successfully if VT or VT-d option is enabled in BIOS

Problem	If VT or VT-d option is enabled in BIOS, VMWare* ESXi 5.1.0 cannot be installed successfully.
Implication	The user may not install the VMWare* ESXi 5.1.0 with VT or VT-d enabled in BIOS.
Status	The issue may be fixed in future BIOS or VMWare* ESXi.
Workaround	The user needs to disable VT and VT-d option in BIOS before installing VMWare* ESXi 5.1.0. After installation is done, the user can enable VT and VT-d option in BIOS.

3. There are assert event logs for SPS FW Health sensor 0x17 when one power supply cord is unplugged

Problem	If one power supply cord is unplugged, SPS FW Health sensor 0x17 – critical event will be reported. The log is "CRITICAL Event: Internal error during firmware execution. Image shall be updated to other version or hardware board repair is needed (if error is persistent). – Asserted."
Implication	The normal AC should not get this critical event log.
Status	This issue may be fixed in future ME.
Workaround	The customer can ignore this critical event log when AC happens normally.

4. Redhat* Enterprise Linux 6 Update4 with KVM x64 uEFI ESRTII RAID 5 installation fails

Problem	The Redhat* Enterprise Linux 6 Update4 with KVM x64 uEFI version cannot be installed successfully on ESRTII RAID 5 mode.
Implication	The user may not use Redhat* Enterprise Linux 6 Update4 with KVM x64 uEFI version on ESRTII RAID 5 mode.
Status	The issue is under investigation.
Workaround	No.

5. SuSE* SLES10 SP4 with XEN & KVM x32& x64 cannot find hard drive in ENHANCED and COMPATIBILITY mode

Problem	In enhanced mode and compatibility mode, SuSE* SLES10 SP4 with Xen & KVM x32 and x64 cannot find hard drive.
Implication	The issue is because the SLES10 SP4 does not include the chipset driver.
Status	Will not fix.
Workaround	The user can use AHCI mode or other RAID mode to use SuSE* SLES10 SP4 with Xen & KVM x32 and x64.

6. No video display from display port if 64-bit MMIO is enabled in BIOS

Problem	On Intel® Server Board S1200V3RPM, there is no video display from display port when using graphic process if 64-bit MMIO is enabled in BIOS.
Implication	The legacy BIOS does not support graphics when MMIO is greater than 4 GB.
Status	This issue may be fixed in a future BIOS revision.
Workaround	No.

7. Some monitors cannot work with Intel® Server Board S1200V3RPM display port during POST

Problem	There is no display from display port on Intel® Server Board S1200V3RPM if using some monitors during POST.
Implication	After POST is done, the display port can work.
Status	No Fix.
Workaround	The user may change to test some of other monitors for the display port.

8. On some motherboards, SEL log is not cleared from the manufactory

Problem	The user may get the board with SEL log not cleared. The SEL content is “Event Logging Disabled, System Event Log (#0x7) Informational event: System Event Log reports the log area has been cleared. BMC – LUN#0 (Channel#0)” and “Physical Security (Chassis IntruPhysical Scrtty, Physical Scrtty (#0x4) Informational event: Physical Scrtty reports LAN Leash has been regained.”
Implication	There is no functional impact to the user.
Status	The issue may be fixed on future board.
Workaround	NA.

9. Without rebooting after USB 3.0 driver is installed, using syscfg to change boot order cannot work in Windows* Operating System

Problem	After installing the USB 3.0 driver in Windows* Operating System without rebooting the system, changing the boot order using syscfg cannot work.
Implication	The user needs to reboot the system after installing USB 3.0 driver. Then the user can change the boot order in Windows* Operating System.
Status	The issue may be fixed in future BIOS.
Workaround	NA.

10. When installing Redhat* Linux 6 Update 4 with USB device attached, the USB device cannot work

Problem	The USB device cannot work during Redhat* Linux 6 Update 4 installation. The user needs to disable “USB 3.0” in BIOS setup page.
Implication	The user needs to disable the option of “USB 3.0” in setup page, then the USB can be used to install the Redhat* Linux 6 Update4.
Status	Will not fix.
Workaround	NA.

11. 500MB memory is reserved in BIOS

Problem	In Intel® Server Board S1200V3RP family, the BIOS reserves around 500MB memory.
Implication	The user will find 500MB memory loss from operating system.

Status The issue may be fixed in future BIOS.

Workaround NA.

12. The power supply without C6/C7 function may not work with Intel® Server Board S1200V3RP

Problem The power supply without C6/C7 function may not work with Intel® Server Board S1200V3RP. By default C6/C7 is disabled in BIOS setting. But if the user enables C6/C7, the power supply that doesn't have C6/C7 cannot be supported.

Implication The platform doesn't support the power supply that doesn't have C6/C7 function.

Status Will not fix.

Workaround The user needs to make sure C6/C7 is disabled in BIOS setting to use the power supply that doesn't have C6/C7 function.

13. The USB device cannot be removed when installing Windows* operating system

Problem During Windows* operating system installation, the USB device cannot be removed until the installation is done if any USB device is plugged in.

Implication The user needs to keep the USB device in the system when installing Windows* operating system.

Status Will not fix.

Workaround NA.

14. There will be an error of Processor 1 P1 MTT after installing VMware* ESXi 5.1 on the Intel® Server Board S1200V3RP

Problem After installing VMware* ESXi 5.1 on the Intel® Server Board S1200V3RP and going to the vSphere interface to check Motherboard sensors, there will be an "alert" of Processor 1 P1 MTT (Memory Thermal Throttling) – upper fatal error.

Implication It is a fake alert with no functional impact.

Status The issue will be fixed in a future BIOS release.

Workaround NA.

15. After installing Windows 2008* R2 SP1 on the Intel® Server Board S1200V3RP, the VM cannot be started when a RemoteFX* 3D virtual graphic card is installed in the VM of Hyper-V

Problem After installing Windows 2008* R2 SP1 on the Intel® Server Board S1200V3RP, the VM cannot be started when a RemoteFX* 3D virtual graphic card is installed in the VM of Hyper-V. If VHD (RemoteFX) is disabled, the Hyper-V VM can start normally.

Implication The VHD feature doesn't work on Windows 2008* R2 SP1.

Status Will not fix.

Workaround Enter the BIOS setup page and set the primary display interface as Processor Integrated Graphics.

Documentation Changes
