

Monthly Specification Update

Intel® Server Board S1200BTL
Intel® Server Board S1200BTS
Intel® Server System R1304BTLSFAN
Intel® Server System R1304BTSSFAN
Intel® Server System R1304BTLSHBN
Intel® Server System P4304BTLSFCN
Intel® Server System P4304BTSSFCN
Intel® Server System P4304BTLSHCN

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Enterprise Platforms and Services Marketing

Revision History

Date	Modifications	
April 2011	Initial release.	
May 2011	Updated Errata 1-4.	
July 2011	Add Errata 16-19; Updated Errata 9-10, 12-14.	

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

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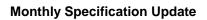
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Preface

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

- Intel® Server Board S1200BTL/S1200BTS
- Intel[®] Server System R1304BTLSFAN/R1304BTSSFAN/R1304BTLSHBN
- Intel[®] Server System P4304BTLSFCN/P4304BTSSFCN/R4304BTLSHCN

The following defines items communicated in this document:

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 a supported feature or function 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 item is new or has been modified from the previous specification update.

Table 1. Errata Summary

No.	Plans	Description of Errata		
1	Fixed	Bios setting is locked after running 'syscfg/bldfs' to load Bios default setting.		
2	Fixed	Admin Password is cleared after loading user defaults.		
3	Fixed	By using LSI* SCSI storage card 20320 can't enter into Microsoft Windows 2008* R2.		
4	Fixed	Intelligent Platform Management Bus (IPMB) functions on devices connected to IPMB connector might not be available on Intel [®] Server Board S1200BTL.		
5	Fix	Unable to install SLES* 11 Service Package 1 to iSCSi drive from onboard Intel® 82579 network card.		
6	No Fix	Node Manager does not work with Intel [®] Core [™] Processor i3-2100 series or Intel [®] Pentium [®] Processor.		
7	Fix	Intel® Integrated RAID Module SRMS2LL040 does not work.		
8	Fix	Memory Mapped I/O above 4 GB option can't map 64bit addresses.		
9	Fixed	Windows 2008* R2 can't be installed properly or the OS will hang with NIC ROM disabled in BIOS.		
10	Fixed	The SGPIO cable is not compatible with Intel® SAS Entry Raid Module AXX4SASMOD, Intel® Integrated RAID Module SRMS2AF040 and Intel® Integrated RAID Module SRMS2LL040.		
11	Not Fix	When EULOT 6 is enabled, the system can't boot up by press power button once.		
12	Fixed	The value of SMI BIOS type 17 is not correct.		
13	Fixed	BMC user SOL payload enable/disable status can't be saved across BMC reset.		
14	Fixed	SOL activation is failed when Console Redirection is disabled in BIOS Setup.		
15	Fix	The 4 th HDD cage interferes with the right side rack handle screws on then Intel [®] R1304BTLSHBN.		
16	Fix	Microsoft* Windows SBS 2011 Essential doesn't recognize ESRT2 driver during installation		
17	Fix	System may hang about 20 seconds during system rebooting		
18	Fix	Some Function Keys does not work through SOL session		
19	Fix	Keyboard does not work under EFI if USB flash disk is inserted/removed when enabled TXT in BIOS		

Table 2. Documentation Changes

No.	Plans	Document Name	Description of Documentation Change
1	Fix	Intel® Server Board S1200BT Technical Product Specification	The DMI speed with is incorrect.

2	Fixed	Intel® Server System	The AXXVRAIL is not included in the Intel® Server System
		R1304BTLSFAN,	R1304BTLSFAN, R1304BTLSHBN, and R1304BTSSFAN
		R1304BTLSHBN, and	package.
		R1304BTSSFAN Technical	
		Product Specification	

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. Bios setting is locked after running 'syscfg/bldfs' to load Bios default setting

Problem The user uses "syscfg/bldfs" to load BIOS default setting, the BIOS setting

is locked.

Implication The user can't change the BIOS setting after the user uses "syscfg/bldfs" to

load BIOS default setting on Intel® Server Board S1200BTL.

Status This issue is fixed in BIOS Revision 24.

Workaround The user can use CMOS clear to clear the settings and reboot the system, after

that the BIOS setting can work.

2. Admin Password is cleared after loading user defaults

Problem Set admin password by using syscfg command "syscfg/bap", "int123", and then

load user default setting by using "syscfg/bldfs", reboot the system to enter into

BIOS setup, the password is not shown.

Implication After the user sets the password using the "syscfg" utility, the password does

not prompt the user after the first reboot on Intel® Server Board S1200BTL.

Status This issue is fixed in BIOS Revision 24.

Workaround Reboot the system twice, the admin password will be shown.

3. LSI* SCSI storage card 20320 can't enter into Microsoft Windows 2008* R2

Problem When using the LSI* SCSI storage card 20320, the system can't enter into

Microsoft Windows 2008* R2. It hangs on the error "Info: An error occurred

while attempting to read the boot configuration data".

Implication The user can't use LSI* SCSI storage card 20320 on the Intel® Server Boards

S1200BTL.

Status This issue is fixed in BIOS Revision 24.

Workaround None.

4. Intelligent Platform Management Bus (IPMB) functions on devices connected to IPMB connector might not be available on Intel[®] Server Board S1200BTL

Problem Intelligent Platform Management Bus (IPMB) functions on devices connected to

IPMB connector might not be available on the Intel® Server Board S1200BTL.

Implication The issue has been root caused to a violation of IPMI and PM Bus specification

on the IPMB and PM Bus ports.

Status This issue is fixed in BMC Revision 01.05.

Workaround None.

5. Unable to install Linux SLES* 11 Service Package 1 to iSCSi drive from onboard Intel® 82579 network card

Problem Unable to install SLES11* SP1 to iSCSi drive from 82579 network card.

Implication SLES11* SP1 doesn't include a driver for Intel® 82579 network cards.

Status The issue is under investigation.

Workaround N/A.

6. Node Manager does not work with Intel[®] Core[™] Processor i3-2100 series or Intel[®] Pentium[®] Processor

Problem On Intel® Server Board S1200BTL, node manager is supported with Intel®

Xeon[®] Processor E3-1200 Series, but node manager is not supported with Intel[®] Core[™] Processor i3-2100 series or Intel[®] Pentium[®] Processor.

Implication Hardware required for CPU power limiting is functional on Intel[®] Xeon[®]

Processor; it is not functional on Intel[®] Core[™] i3 processor or Intel[®] Pentium[®]

Processor.

Status No Fix.

Workaround N/A.

7. Intel[®] Integrated RAID Module SRMS2LL040 doesn't work

Problem OS is installed to the Intel® Integrated RAID module SRMS2LL040 with SATA

CDROM (the on-board SATA mode is set to AHCI mode in BIOS Setup), the

OS fails to reboot after removing CDROM.

Implication The OpROM of SRMS2LL040 is not compatible with the BIOS.

Status May be fixed in BIOS Revision 30.

Workaround N/A.

8. Memory Mapped I/O above 4 GB option can't map 64bit addresses

Problem There is a setting in BIOS Setup for memory map I/O above 4GB, but this

setting can't map 64bit addresses.

Implication A device with a 64-bit BAR region, the memory is still located below 4GB.

Status The issue is under investigation.

Workaround N/A.

9. Windows 2008* R2 can't be installed properly or the OS will reset with NIC ROM disabled in BIOS

Problem On Intel® Server Board S1200BTL and S1200BTS, the installation of Windows

2008* R2 will hang up or the system will reset after entering into OS if NIC

ROM is disabled in BIOS Setup.

Implication The issue is root caused to the watchdog timer which is disabled when the NIC

ROM is disabled in BIOS.

Status Fixed in BIOS Revision 28.

Workaround The user needs to enable NIC ROM in BIOS when installing or using Windows

2008* R2.

10. The SGPIO cable is not compatible with Intel® SAS Entry Raid Module AXX4SASMOD, Intel® Integrated RAID Module SRMS2AF040, and Intel® Integrated RAID Module SRMS2LL040

Problem The SGPIO cable isn't compatiable between some modules and the backplane

in the system.

Implication The SGPIO connector on the backplane in the hotswap system or the hotswap

chassis is a 5-pin connector. The SGPIO connector in module is a 4-pin

connector. The cable shipped with the system or the chassis is a 5-pin to 5-pin cable. The SGPIO cable is used to connect the Intel® Server Board S1200BTL

and the backplane, but not compatible with the affected modules.

Status PCN110781-00 has a customer notification for the new Y-type cable cut-in

schedule.

Workaround N/A.

11. When EuLOT 6 is enabled, the system can't boot up by pressing the power button one time

Problem When the user enables EuLOT6 in BIOS Setup, the system can't be powered

up by pressing the power button one time.

Implication The delay for RSMRST to PWRBTN is not enough

Status No Fix.

Workaround The user needs to press the power button twice when EuLOT6 is enabled in

BIOS to ensure the system can power up.

12. The value of SMBIOS Type 17 is not correct

Problem The value of SMBIOS Type 17 is not correct. The total width shows 128 bit. It

should be 72 bit.

Implication The SMBIOS Type 17 setting is not correct.

Status Fixed in BIOS Revision 28.

Workaround NA.

13. BMC user SOL payload enable/disable status can't be saved after BMC reset

Problem When changing the setting of the BMC user SOL payload to enable or disable

after resetting the system, the setting can't be saved.

Implication The function of enabling or disabling the BMC user SOL playload does

not work.

Status Fixed in BMC release Revision 01.07.

Workaround N/A.

14. SOL activation fails when Console Redirection is disabled in BIOS

Problem SOL activation fails when Console Redirection is disabled in BIOS Setup.

Implication The BIOS requires the legacy serial console redirection to be enabled before

the SOL session is established.

Status Fixed in BMC release Revision 01.07.

Workaround To use SOL, the user needs to enable the console redirection in BIOS.

15. The 4th HDD cage interferes with the right side rack handle screws on the Intel[®] Server System R1304BTLSHBN

Problem The screws used to attach the rack handle to the chassis are too long. The

screw in the rack handle package is 6mm.

Implication The issue has been root caused to the incorrect rack handle screws. The

incorrect rack handle screw length is 6mm while the correct screw length is

4mm. The incorrect rack handle screw causes a conflict with the 4th

HDD carrier.

Status The shorter screws (4mm length) can fix this issue. Intel[®] will cut-in the new

screws in the next build.

Workaround A 4mm screw will fix this issue.

16. Microsoft* Windows SBS 2011 Essential doesn't recognize ESRT2 driver during installation

Problem Microsoft* Windows SBS 2011 Essential doesn't recognize ESRT2 driver

during installation.

Implication During operating system installation over ESRT2 RAID, system doesn't load

ESRT2 driver successfully.

Status This issue is under investigation.

Workaround Before putting the driver into driver media, change MegaSR.INF file name into

megasr.inf, which has all lower case letters in the file name.

17. System may hang about 20 seconds during system reboot

Problem On Intel® Server Board S1200BTS, when trying to reboot the system, it may

hang about 20s during reboot.

Implication Users have to wait for 20s to let the system boot up normally.

Status May be fixed in BIOS Revision 30.

Workaround None

18. Some Function Keys does not work during a SOL session

Problem The below function keys does not work during a SOL session: "Backspace",

"Insert", "Delete", "Home", "End", "PgUp" and "PgDn".

Implication The user can't use those function keys during a SOL session.

Status The issue is under investigation.

Workaround None

19. Keyboard does not work under EFI if USB flash disk is inserted/removed when TXT is enabled in BIOS Setup

Problem Enable TXT function in BIOS and then insert or remove USB flash disk,

keyboard will not work under EFI sometimes.

Implication The user can not do action for USB flash disk if the user needs to use keyboard

under EFI.

Status May be fixed in BIOS Revision 30.

Workaround None

Documentation Changes

1. DMI speed in Intel[®] Server Board S1200BT Technical Product Specification is incorrect

Problem The DMI speed in the Intel® Server Board S1200BT TPS 1.0 is 2.5GT/s. This

information is incorrect. It should be 5GT/s.

Implication The documentation is incorrect.

Status Will fix in Intel® Server Board S1200BT TPS 1.1.

Workaround N/A.

2. The AXXVRAIL is not included in the Intel® Server System R1304BTLSFAN, R1304BTLSHBN, and R1304BTSSFAN

Problem The information in *Intel*® Server System R1304BTLSFAN, R1304BTLSHBN,

and R1304BTSSFAN Technical Product Specification 1.0 indidcates the AXXVRAIL is included in the system package. This information is not correct.

Implication The AXXXVRAIL is not included in the Intel® Server System R1304BTLSFAN,

R1304BTLSHBN, and R1304BTSSFAN package.

Status Fixed in Intel® Server System R1304BTLSFAN, R1304BTLSHBN, and

R1304BTSSFAN Technical Product specification 1.1

Workaround N/A.