



Monthly Specification Update

Intel[®] Server Board S1200BTL

Intel[®] Server Board S1200BTS

Intel[®] Server System R1304BTL SFAN

Intel[®] Server System R1304BT SSFAN

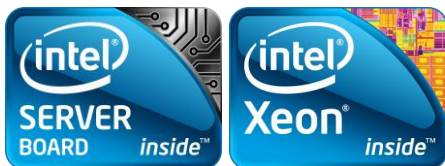
Intel[®] Server System R1304BTL SHBN

Intel[®] Server System P4304BTL SFCN

Intel[®] Server System P4304BT SSFCN

Intel[®] Server System P4304BTL SHCN

Intel Order Number G31821-002



May, 2011

Enterprise Platforms and Services Marketing

Revision History

Date	Modifications
April 2011	Initial release.
May 2011	Updated 8 Errata

Disclaimers

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.

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. 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® may make changes to specifications and product descriptions at any time, without notice.

Contact your local Intel® sales office or your distributor to obtain the latest specifications and before placing your product order.

Intel, Itanium, Pentium, and Xeon are trademarks or registered trademarks of Intel Corporation.

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

Copyright © Intel Corporation 2011.

Contents

Preface	1
Summary Tables of Changes	2
Errata	4
1. Bios setting is locked after running 'syscfg/bldfs' to load Bios default setting	4
2. Admin Password is cleared after loading user defaults.....	4
3. LSI* SCSI storage card 20320 can't enter into Microsoft Windows 2008* R2	4
4. Intelligent Platform Management Bus (IPMB) functions on devices connected to IPMB connector might not be available on Intel® Server Board S1200BTL	5
5. Unable to install Linux SLES* 11 Service Package 1 to iSCSi drive from onboard Intel® 82579 network card	5
6. Node Manager does not work with Intel® Core™ Processor i3-2100 series or Intel® Pentium® Processor.....	5
7. Intel® Integrated RAID Module SRMS2LL040 doesn't work.....	5
8. Memory Mapped I/O above 4 GB option can't map 64bit addressed	6
9. Windows 2008* R2 can't be installed properly or the OS will hang with NIC ROM disabled in BIOS.....	6
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.....	6
11. When EuLOT 6 is enabled, the system can't boot up by pressing the power button one time	7
12. The value of SMBIOS Type 17 is not correct.....	7
13. BMC user SOL payload enable/disable status can't be saved after BMC reset	7
14. SOL activation fails when Console Redirection is disabled in BIOS.....	7
15. The 4 th HDD cage interferes with the right side rack handle screws on the Intel® Server System R1304BTLSHBN	8
Documentation Changes	9
1. DMI speed in Intel® Server Board S1200BT Technical Product Specification is incorrect	9
2. The AXXVRAIL is not included in the Intel® Server System R1304BTLSFAN, R1304BTLSHBN, and R1304BTSSFAN	9

<This is page intentionally left blank.>

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 R1304BTLFAN/R1304BTSSFAN/R1304BTLSHBN
- Intel® Server System P4304BTLFCN/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	Fix	Windows 2008* R2 can't be installed properly or the OS will hang with NIC ROM disabled in BIOS.
10	Fix	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	Fix	The value of SMI BIOS type 17 is not correct.
13	Fix	BMC user SOL payload enable/disable status can't be saved across BMC reset.
14	Fix	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.

Table 2. Documentation Changes

No.	Plans	Document Name	Description of Documentation Change
1	Fix	<i>Intel® Server Board S1200BT Technical Product Specification</i>	The DMI speed with is incorrect.
2	Fixed	<i>Intel® Server System R1304BTLSFAN, R1304BTLSHBN, and R1304BTSSFAN Technical Product Specification</i>	The AXXVRAIL is not included in the Intel® Server System R1304BTLSFAN, R1304BTLSHBN, and R1304BTSSFAN package.

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 Rev.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 “syscfg”, the password does not prompt the user after the first reboot on Intel® Server Board S1200BTL.
Status	This issue is fixed in BIOS Rev.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 Board S1200BTL.
Status	This issue is fixed in BIOS Rev.24.
Workaround	No.

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 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	No.

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 driver for Intel® 82579 network card.
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 The issue is under investigation.

Workaround N/A.

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

Problem There is a setting in BIOS Setup for memory map I/O above 4GB, but this setting can't map 64bit addresses.

Implication The device with a 64bit 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 hang 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 hang up after entering into OS if NIC ROM is disabled in BIOS Setup.

Implication The issue is root caused to watchdog timer is disabled when NIC ROM is disabled in BIOS.

Status May be fixed in BIOS Rev.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 compatible 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 A new Y-type cable to support both of 4-pin and 5-pin are being validated.

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	May be fixed in BIOS Rev.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 payload does not work.
Status	May be fixed in BMC release Rev.01.06.
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	May be fixed in BMC release Rev01.06.

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 new build.

Workaround A 4mm screw will fix this issue.

Documentation Changes

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

Problem	The DMI speed in the <i>Intel® Server Board S1200BT TPS 1.0</i> is 2.5GT/s. This information is incorrect. It should be 5GT/s.
Implication	The documentation is incorrect.
Status	Will fix in <i>Intel® Server Board S1200BT TPS 1.1</i> .
Workaround	N/A.

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

Problem	The information in <i>Intel® Server System R1304BTLSFAN, R1304BTLSHBN, and R1304BTSSFAN Technical Product Specification 1.0</i> indicates 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 <i>Intel® Server System R1304BTLSFAN, R1304BTLSHBN, and R1304BTSSFAN Technical Product specification 1.1</i>
Workaround	N/A.