



# 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 P4304BTSSFAN**

**Intel® Server System P4304BTLSHCN**

*Intel Order Number G31821-008*



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**Enterprise Platforms and Services Marketing**

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## Revision History

Date	Modifications
April 2011	Initial release.
May 2011	Updated Errata 1-4.
June 2011	Add Errata 16-19; Updated Errata 9-10, 12-14.
July 2011	Add Errata 20 and 21.
Sep. 2011	Add Errata 22, 23 and 24.
Oct. 2011	Add Errata 25 and Add Errata 26; updated Errata 5, 7, 9, 16, 17, 19, 20, 21, 23 and 24.
Nov.2011	Add Errata 27 and Add Errata 28; add document change 3.
Dec.2011	No update.
April. 2012	Add Errata 29, 30; update Errata 8, 23, 26; update Documentation changes 1, 3
May. 2012	Add Errata 31, 32;
June. 2012	Add Errata 33; Update Errata 22, 31; Add Documentation changes 4
July. 2012	Add Errata 34; Update Errata 32;
Sep. 2012	Add Errata 35;

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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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## Preface

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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

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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	Fixed	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	Fixed	Intel® Integrated RAID Module SRMS2LL040 does not work.
8	Fixed	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	Fixed	The 4th HDD cage interferes with the right side rack handle screws on then Intel® R1304BTLSHBN.
16	Fixed	Microsoft* Windows SBS 2011 Essential doesn't recognize ESRT2 driver during installation
17	Fixed	System may hang about 20 seconds during system rebooting
18	Fix	Some Function Keys does not work through SOL session
19	Fixed	Keyboard does not work under EFI if USB flash disk is inserted/removed when enabled TXT in BIOS
20	Fixed	When using Hardware RAID controller, pressing "Ctrl+G" can not enter RAID configuration utility
21	Fixed	The RPM of three fans on Intel® Server System R1304BTLSHBN drops to 0 sometimes after AC cycle
22	Fixed	PCT reports "Processor Does Not Support Brand ID"
23	Fixed	The SEL is keep reporting when RAID is rebuilding on Intel® Server System R1304BTLSHBN
24	Fixed	The system can not detect more than 8 USB devices
25	Fix	USB Keyboard mouse cannot wakeup the system from the Standby mode



26	Fixed	The NMI button on front panel does not work as expected
27	Fix	Consistency Check in S1200BTL/S1200BTS motherboard's ESRT2 OpROM Configuration Utility returns error message
28	No Fix	There is no driver for Intel® 82579 network card on VMWare ESXi* 5.0, VMWare ESXi* 4.1 Update 1 and VMWare* ESX 4.1 Update1
29	Fixed	Using the 4K section HDDs in USB port and set it as non boot device, it needs 10 minute to pass through. It is should be in less than one minutes
30	Fixed	Server Management Settings cannot be configured using latest SysCfg Version 10 Build6 on S1200BTL.
31	Fixed	Function key can not work on KVM remote console on S1200BTL board.
32	Fix	ME downgrade is not supported by IDA and OFU.
33	Fix	When updating BMC in IDA, IDA shows BMC Release version in Hex. E.g: 1.14 shown as 1.0e
34	Fix	NIC port1 will be disabled in BIOS default configuration
35	Fix	HDD LED may blink amber when a hot swap bay is empty on the Intel® Server System R1304BTLSHBN

**Table 2. Documentation Changes**

No.	Plans	Document Name	Description of Documentation Change
1	Fixed	<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.
3	Fix	<i>Intel® Server Board S1200BT Technical Product Specification</i>	Add Expected Post Code diagnostics LEDs status after system booting into operating system
4	Fixed	<i>Intel® Server Board S1200BT Technical Product Specification</i>	Add BIOS new feature "Power on Password" and "Show CPU Core Ratio"

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

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### 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 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 Fixed in BIOS Revision 33.

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 installation of Windows 2008\* R2 will hang up or the system will reset after entering into OS if NIC ROM is disabled.

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 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 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 long 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 payload 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 4<sup>th</sup> 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** Using the screw for the rack handle will interfere with the chassis.

**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** Fixed in BIOS Rev.30.

**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 20 seconds during reboot.

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

**Status** Fixed in BIOS Revision 30.

**Workaround** None

## 18. Some Function Keys do 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 may be fixed in a future BIOS version.

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 may not work under EFI.

Implication The user can not insert or remove USB flash disk if the user needs to use keyboard under EFI when TXT is enabled.

Status Fixed in BIOS Revision 30.

Workaround None

## 20. When using Hardware RAID controller, pressing "Ctrl+G" can not enter RAID configuration utility

Problem If using hardware RAID controller, pressing "Ctrl+G" cannot enter RAID configuration utility.

Implication The user can not configure hardware RAID controller using RAID configuration utility.

Status This issue has been fixed in BIOS Rev.28. After updating to BIOS Rev.28, the user needs to load BIOS default setting.

Workaround None

## 21. The RPM of three fans on Intel® Server System R1304BTLSHBN may drop to 0 sometimes after AC cycle

Problem After AC power off and power on, the RPM of three fans on Intel® Server System may R1304BTLSHBN drop to 0.

Implication This issue happens after 1000 AC cycles with R1304BTLSHBN. After this issue happens, an AC cycle will recover the system.

Status Fixed in BMC Rev1.10.

Workaround None

## 22. PCT reports "Processor Does Not Support Brand ID"

Problem	When running PCT(platform confidence test utility) on Intel® Server Board S1200BTL, PCT reports "Processor Does Not Support Brand ID".
Implication	This is actually not an error message, it indicates that this Processor ID is not in the list of processors can be recognized by PCT.
Status	Fixed in PCT1.04 V02 tool.
Workaround	N/A.

### **23. The SEL is keep reporting when RAID is rebuilding on Intel® Server System R1304BTLSHBN**

Problem	When the RAID is rebuilding, the Rebuild/Remap is recorded in SEL until the SEL is full.
Implication	The user will see the hot swap backplane rebuild SEL.
Status	Fixed in BMC Rev. 1.10.
Workaround	None

### **24. The system can not detect more than 8 USB devices**

Problem	On Intel® Server Board S1200BTL/S1200BTS, the board can not detect more than 8 USB devices. It can only detect 8 USB devices or less than 8 USB devices.
Implication	The BIOS fails to control the USB controller if more than 8 USB devices plugged in.
Status	Fixed in BIOS Rev.30.
Workaround	None

### **25. The board will allocate about 250MB memory for PCIe device under Microsoft\* windows OS**

Problem	On Intel® Server Board S1200BTL/S1200BTS, the board will reserve 250MB memory for PCIe device under Microsoft* windows OS.
Implication	The memory size showed in Windows* OS will be the memory the user installs minus about 250MB. For example, if there is 1GB memory installed in the board, the Microsoft* Windows OS will show about 750GB.
Status	Will not fix.
Workaround	None



## 26. The NMI button on front panel does not work as expected

Problem	When pressing the NMI button on the front panel the system does not generate an Non-Maskable Interrupt.
Implication	Cannot create NMI interrupt through the NMI button on front panel.
Status	Fixed in BIOS Rev.35
Workaround	None.

## 27. Consistency Check in S1200BTL/S1200BTS motherboard's ESRT2 OpROM Configuration Utility returns error message

Problem	Consistency Check in S1200BTL/S1200BTS motherboard's ESRT2 OpROM Configuration Utility returns error message
Implication	The screen may pop up message "Error In Reading Sectors To Drive0 ! Proceed Anyway (Y/N)?". If Y is pressed, the screen may pop up the same message after a while. The Consistency Check may not complete successfully. User has to abort the Consistency Check.
Status	It is under investigation of why ESRT2 OpROM Configuration Utility has such a limitation.
Workaround	In the operating system environment, use Intel® RAID Web Console 2 to implement Consistency Check. The failure to complete Consistency Check during ESRT2 OpROM Configuration Utility doesn't impact normal usage under operating system environment.

## 28. There is no driver for Intel® 82579 network card on VMWare ESXi\* 5.0, VMWare ESXi\* 4.1 Update 1 and VMWare\* ESX 4.1 Update 1

Problem	There is no driver for Intel® 82579 network card on VMWare ESXi* 5.0, VMWare ESXi* 4.1 Update 1 and VMWare* ESX 4.1 Update 1
Implication	Intel® 82579 network card can not be recognized under VMWare ESXi* 5.0, VMWare ESXi* 4.1 Update 1 and VMWare* ESX 4.1 Update 1
Status	NA.
Workaround	None.

## 29. The boot time is 10 mins if using 4k section HDDs

Problem	Using the 4K section HDDs in USB port and set it as non boot device, it needs 10 minute to pass through. It is should be in less than one minutes.
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Implication The boot up time is too long.

Status Fixed in BIOS Rev. 35.

Workaround None.

### 30. Unable to get Server Management variables on BTP using SysCfg

Problem Server Management Settings cannot be configured using latest SysCfg Version 10 Build6 on S1200BTL.

Implication The user can't change BMC setting by the latest syscfg tool on Intel® Server Board S1200BTL.

Status Fixed in BIOS Rev. 35.

Workaround None.

### 31. Function key can not work on KVM remote console on S1200BTL board

Problem Function key can not work on KVM remote console on S1200BTL board.

Implication The user can't enter into BIOS setting from KVM remote console during server is booting up.

Status Fixed in BIOS Rev.37.

Workaround Enter BIOS setting to set the option "System Boot Timeout" from 0 to 3 seconds.

### 32. ME downgrade is not supported by IDA and OFU

Problem IDA and OFU can not support ME downgrade.

Implication IDA and OFU doesn't support ME downgrade from 02.02.00.036 or higher version to 02.00.09.032 or lower version.

Status Will fix in the future IDA and OFU release.

Workaround None

### 33. When updating BMC in IDA, IDA shows BMC Release version in Hex. E.g: 1.14 shown as 1.0e

Problem IDA can not show BMC version in decimalization.

Implication IDA only can show BMC release version in Hex when updating BMC by IDA tool.

Status Will fix in the future IDA release.

Workaround EFI shell can show BMC version correctly.

### 34. NIC Port1 will be disabled in BIOS default configuration

Problem On Intel® Server Board S1200BT family, the NIC port1 will be disabled in BIOS default configuration when upgrading BIOS from the lower versions to BIOS Rev.37

Implication After updating to BIOS Rev.37, the NIC port1 will not work if using the BIOS default configuration.

Status Will fix in the next BIOS release.

Workaround The user can enable NIC port1 in BIOS Setup and the port will work.

### 35. HDD LED may blink amber when a hot swap bay is empty on the Intel® Server System R1304BTLSHBN

Problem On the Intel® Server System R1304BTLSHBN, the HDD LED of an empty hot swap bay may blink amber when the system boots to operating system.

Implication After booting to the OS, the HDD LED of the empty hot swap bay might keep blinking amber .

Status May be fixed in a future BIOS release.

Workaround None

## Documentation Changes

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### 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 Fixed in *Intel® Server Board S1200BT TPS 2.0*.

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 AXXVRAIL 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.

## 3. Add Expected Post Code diagnostics LEDs status after system booting into the operating system

Problem	In Intel® Server Board S1200BT Technical Specification 1.0, there is no information for the Post Code after system booting into the operating system.
Implication	The Post Code is 0x00 after booting into DOS. The Post Code is 0xA0 after system booting into the other operating system.
Status	The information will be added into Intel® Server Board S1200BT Technical Product Specification R2.1.
Workaround	N/A.

## 4. Add BIOS new feature "Power on Password" and "Show CPU Core Ratio"

Problem	BIOS add new feature "Power on Password" and "Show CPU Core Ratio" in BIOS37 and later
Implication	These new features have been implemented in BIOS37.
Status	Fixed in Intel® Server Board S1200BT Technical Product Specification R2.1.
Workaround	N/A.