



Specification Update

Intel® Server System S7000FC4UR

Intel Order Number E21898-001

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Enterprise Platforms and Services Marketing

Revision History

Date	Modifications
August 2007	Initial release.
September 2007	Added Errata #8
October 2007	No additions
November 2007	Added Errata #9 and Doc changes #1-4
December 2007	Added Doc change #5
January 2008	Added Errata #10 and Doc change #6
February 2008	No additions
March 2008	Added Doc change #7
April 2008	Added Errata #11-13
May 2008	Added Errata #14 and Doc change #8
June 2008	Added Errata #15-16
July 2008	Added Errata #17
August 2008	No additions
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November 2008	No additions
December 2008	Updated product code. Updated Errata status. Added Errata #18-20
January, 2009	Added Doc change #9. Updated Errata status
February, 2009	Added Errata #21
March, 2009	Added Errata #22
April, 2009	Updated Errata #22. Added Errata #23-24
May, 2009	Added Errata #25
June, 2009	Updated Errata #4, #6, #8 and #23
July 2009	Updated Errata #22 and #25. Added Errata #26
August 2009	Added Errata #27
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October 2009	No additions
November 2009	Updated Errata #26
December 2009	Updated Errata #23
January 2010	Updated Errata #27
February 2010	Added Errata #28
March 2010	No additions
April 2010	No additions
May 2010	No additions

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The Specification Update Server System 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 is an update to the specifications contained in the *Intel® Server System S7000FC4UR Technical Product Specification*. It is intended for hardware system manufacturers and software developers of applications, operating systems, or tools. It will contain specification changes, specification clarifications, errata, and document changes.

Refer to the *Dual-Core Intel® Xeon® Processor 7200 Series and Quad-Core Intel® Xeon® Processor 7300 Series Specification Update* for specification updates processor. Items contained in the *Dual-Core Intel® Xeon® Processor 7200 Series and Quad-Core Intel® Xeon® Processor 7300 Series Specification Update* that either do not apply to the product or have been worked around are noted in this document. Otherwise, it should be assumed that any processor errata for a given stepping are applicable to the Printed Board Assembly (PBA) revisions(s) associated with that stepping.

This documentation communicates the following types of changes:

Specification Changes are modifications to the current published specifications for Intel® server boards. These changes will be incorporated in the next release of the specifications. Specification changes include typos, errors, or omissions from the current published specifications. These changes will be incorporated in the next release of the documents.

Specification Clarifications describe a specification in greater detail or further highlight a specification's impact to a complex design situation. These clarifications will be incorporated in the next release of the documents.

Errata are design defects or errors. Errata may cause the server board behavior to deviate from published specifications. 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.

Product Scope

Below are the specific boards, BIOS and components covered by this update.

1. Product Code: SFC4UR – Intel® Server System S7000FC4UR

MM #	Server TA #	Baseboard PBA #	Memory Board PBA #	BIOS	Change Description (PCN #)
891429	E10465-001	D56804-602	D52657-303	R0016	Product Launch
891429	E10465-002	D56804-602	D52657-303	R0016	PCN107955
891429	E10465-003	D56804-602	D52657-303	R0016	
891429	E10465-004	D56804-602	D52657-303	R0016	PCN108088
891429	E10465-005	D56804-602	D52657-303	R0016	PCN108189
891429	E10465-006	D56804-602	D52657-303	R0016	PCN108397
891429	E10465-007	D56804-605	D52657-303	R0016	PCN108307
891429	E10465-008	D56804-605	D52657-303	R0016	PCN108491
891429	E10465-009	D56804-605	D52657-303	R0016	PCN108556
891429	E10465-010	D56804-605	D52657-303	R0016	PCN108633
897711	E10465-011	D56804-606	D52657-303	R0025	PCN108829
899977	E10465-012	D56804-702	D52657-502	R0025	PCN108819

2. Product Code: SFC4URE – Intel® Server System S7000FC4UR

MM #	Server TA #	Baseboard PBA #	Memory Board PBA #	BIOS	Change Description (PCN #)
891430	E10476-001	D56804-602	D52657-303	R0016	Product Launch
891430	E10476-002	D56804-602	D52657-303	R0016	PCN107955
891430	E10476-003	D56804-602	D52657-303	R0016	
891430	E10476-004	D56804-602	D52657-303	R0016	PCN108088
891430	E10476-005	D56804-602	D52657-303	R0016	PCN108189
891430	E10476-007	D56804-605	D52657-303	R0016	PCN108517
891430	E10476-008	D56804-605	D52657-303	R0016	PCN108470
891430	E10476-009	D56804-605	D52657-303	R0016	PCN108568
891430	E10476-010	D56804-605	D52657-303	R0016	PCN108489
891430	E10476-011	D56804-605	D52657-303	R0016	PCN108630
897715	E10476-012	D56804-606	D52657-303	R0025	PCN108803
897715	E10476-013	D56804-606	D52657-303	R0025	PCN108874
899982	E10476-014	D56804-702	D52657-502	R0025	PCN108673

899982	E10476-015	D56804-702	D52657-502	R0025	PCN108673
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3. Product Code: SFC4URX – Intel® Server System S7000FC4UR

MM #	Server TA #	Baseboard PBA #	Memory Board PBA #	BIOS	Change Description (PCN #)
900851	E56142-001	D56804-702	D52657-502	R0025	Product Launch

4. Product Code: BFCBASE – Intel® Server Board Set S7000FC4UR – Main Board

MM #	Baseboard TA #	Baseboard PBA #	BIOS	Change Description (PCN #)
891433	D64050-602	D56804-602	R0016	Product Launch
891433	D64050-605	D56804-605	R0016	PCN108246
897708	D64050-606	D56804-606	R0025	PCN108800
899975	D64050-702	D56804-702	R0025	PCN108658

5. Product Code: BFCMEM – Intel® Server Board Set S7000FC4UR – Memory Board

MM #	Memory Board TA #	Memory Board PBA #	Change Description (PCN #)
891436	D64051-303	D52657-303	Product Launch
899976	D64051-502	D52657-502	PCN108637

6. Product Code: FFCIORISER – Intel® Server Board Set S7000FC4UR – I/O Riser

MM #	I/O Riser Board TA #	I/O Riser Board PBA #	Change Description (PCN #)
891440	D64061-203	D54846-203	Product Launch
891440	D64061-204	D54846-204	PCN108341

7. Product Code: AFCSASRISER – Intel® Server Board Set S7000FC4UR – SAS Riser

MM #	SAS Riser Board TA #	SAS Riser Board PBA #	Change Description (PCN #)
892106	D99294-001	D56622-304	Product Launch

892106	D99294-002	D56622-305	PCN108473
892106	D99294-003	D64059-306	PCN108918

Summary Tables of Changes

The following tables indicate the errata and the document changes that apply to the Specification Update. Intel intends to fix some of the errata in a future stepping of components, and to account for the other outstanding issues through documentation or specification changes as noted. The tables use the following notations:

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

Fix: Intel intends to fix this erratum in the future.

Fixed: This erratum has been previously fixed.

No Fix: There are no plans to fix this erratum.

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

Table 1. Errata Summary

No.	Plans	Description of Errata
1.	No Fix	USB flash drives less than 520MB in size may not boot if formatted as HDD in auto emulation mode
2.	No Fix	Front panel system ID LED will not illuminate during initial boot
3.	No Fix	PCIe* Slot 7 will not support all card sizes
4.	Fixed	Hot-plug operations not supported under Linux
5.	Fixed	Multiple SEL entries for single uncorrectable multi-bit error when memory sparing is enabled
6.	Fixed	RMM2 must be removed when installing Intel® Deployment Assistant
7.	Fixed	Upgrading the SAS riser to HW RAID mode may cause the system to hang
8.	Fixed	System may not boot in 100V environment if plugged in and not powered on for more than eight hours
9.	Fixed	System will not boot in certain CPU configurations
10.	Fixed	Date in System Event Log (SEL) is one day ahead
11.	Fix	LAN adapter on I/O riser may cause bus correctable events if driver is disabled
12.	No Fix	Automatic rebuild does not start after replacing HDD in hardware RAID configuration
13.	Fix	Intel® Remote Management Module 2 firmware may impact LCP firmware updates
14.	Fixed	Intel® Server System S7000FC4UR SAS riser with an iBBU may not keep cache data valid during a power failure
15.	Fixed	Erroneous SEL entries due to noise on SMBUS
16.	Fixed	SAS Riser update to Hardware RAID from Integrated RAID (IR) mode unsuccessful
17.	Fix	Seagate Savvio 10K.2 146 GB drive (Part number ST9146802SS) green identification light does not light and remain lit.
18.	No Fix	SATA cable interfere with memory boards C/D on SFC4URX
19.	No Fix	Memory board latches interfere with top air duct on SFC4URX

20.	No Fix	Heatsink filler interferes with bottom air duct on SFC4URX
21.	No Fix	Upper air Baffle Processor location numbering do not match with base board on SFC4URX
22.	No Fix	BSOD(Blue Screen of Death) during power cycle testing when using Xeon® 7400 serial CPU and Windows server 2003*
23.	No Fix	SLES (SUSE Linux Enterprise Server) 10 SP1/SP2 and VMware ESX 4.0* cannot be installed through CD/DVD with C71688-004 SATA-PATA board
24.	Fix	Mouse action is slow in RAID BIOS console when connecting with rear USB port and using four Xeon® 7400 serial CPUs
25.	No Fix	SLES (SUSE Linux Enterprise Server) 10 SP1 cannot boot after installation when loading ESRT2 RAID driver from USB floppy
26.	Fixed	The network connection of IO Riser Ethernet port may not be stable when connecting with crossover cable
27.	Fixed	The IPMI chassis reset command may cause uncorrectable memory ECC error
28.	Fix	Intel® Active System Console may fail to detect the status of memory board thermal margin sensors

Table 2. Documentation Changes

No.	Plans	Description of Documentation Change
1.	Doc	Hard drive LEDs are not illuminated when SATA drives are used
2.	Doc	Hibernation mode is not supported on the Intel® Server System S7000FC4UR
3.	Doc	Using 6 DIMMs on a single memory board is not listed as a supported configuration
4.	Doc	BIOS setup option to disable TPM functionality
5.	Doc	AC power must be removed for more than 1 minute when attaching or removing the Intel® Local Control Panel
6.	Doc	Sensor type logged in the System Event Log (SEL) when system is booted with no processors installed
7.	Doc	Intel® Server System S7000FC4UR Technical Product Specification incorrectly lists the number of hot-plug slots
8.	Doc	On-board NIC status LED behavior is not consistent with Intel® Server System S7000FC4UR Technical Product Specification
9.	Doc	Intel® Server System S7000FC4UR BIOS External Product Specification lists incorrect definition of SEL entry format for Memory Sensor Type

Following are in-depth descriptions of each erratum / documentation change indicated in the tables above. The errata and documentation change numbers below correspond to the numbers in the tables.

Errata

1. USB flash drives less than 520MB in size may not boot if formatted as HDD in auto emulation mode

Problem	Per the BIOS specification, USB flash drives less than 520 MB are emulated as a floppy in auto emulation mode (default)
Implication	USB flash drives less than 520MB cannot be used as a boot device using the default auto emulation mode.
Workaround	Set emulation to HDD mode for USB flash drives less than 520MB.
Status	Will Not Fix

2. Front panel system ID LED will not illuminate during initial boot

Problem	Front panel system ID LED functionality is only supported after POST has completed.
Implication	If the system ID LED is pressed before POST completes it may not stay lit.
Workaround	Wait until POST is complete before pressing the system ID button
Status	Will Not Fix

3. PCIe* Slot 7 will not support all card sizes

Problem	The PCIe specification states that the max height is 5.08mm (0.2inch) in that area next to the PCIe connectors.
Implication	Some PCIe adapters may not fit in slot 7.
Workaround	Use adapters that do not have components near the connector to avoid damage to the serial port or adapter.
Status	Will Not Fix

4. Hot-plug operations not supported under Linux

Problem	The default acpiphp driver does not discover any P2P bridges that support PCI Hot Plug* or there are no _HPP objects in the ACPI namespace.
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Implication	Hot-plug operations are not supported on any Linux operating systems
Workaround	None
Status	Fixed with BIOS R0019

5. Multiple SEL entries for single uncorrectable multi-bit error when memory sparing is enabled

Problem	BIOS error handling routine incorrectly logs uncorrectable multi-bit errors when memory sparing is enabled.
Implication	Multiple SEL entries may be observed if a multi-bit error is encountered when memory sparing is enabled
Workaround	None
Status	Fixed with BIOS R0017

6. RMM2 must be removed when installing Intel® Deployment Assistant

Problem	The RMM2 may cause the installation of the Intel Deployment Assistant to hang after the license acceptance page.
Implication	Juntura installation will not complete if an RMM2 is installed
Workaround	Remove RMM2 while installing Juntura. Re-install once complete
Status	Fixed with Intel Deployment Assistant 2.0

7. Upgrading the SAS riser to HW RAID mode may cause the system to hang

Problem	If BIOS R17 is installed when performing the HW RAID FW upgrade the system may hang due to a timing issue between the SAS riser and the system BIOS.
Implication	The system will hang and the SAS riser will not be in HW RAID mode.
Workaround	Upgrade the SAS riser to HW RAID mode prior to upgrading the system BIOS from R16 to R17.
Status	Fixed with BIOS R0025

8. Intel® Server System S7000FC4UR may not boot in 100V environment if plugged in and not powered on for more than eight hours

Problem	A sensor in the power supply may incorrectly report an over-temperature condition if the system has been generating standby power for more than eight hours in a 100V environment.
Implication	Systems operating in a 100V environment will not boot until the power supply sensor reaches a normal operating temperature. When the power button is pushed in this state, the system will immediately shutdown due to the over-temperature condition.
Workaround	Prevent the power supply from generating standby power by removing power cords from systems that will not be turned on within eight hours. If the system has been generating standby power for more than eight hours, remove the power cords for at least 10 minutes to allow the power supply sensor to cool down to a normal operating temperature.
Status	Fixed with power supply D60079-008

9. Intel® Server System S7000FC4UR will not boot in certain CPU configurations

Problem	Intel® Server System S7000FC4UR's using baseboard D56804-603 will not boot when two specific CPU configurations are used. This is due to an issue in the PLD. Please refer to Technical Advisory 0855-01 for further information.
Implication	If the system is populated with a CPU only in socket 3 or with CPUs in sockets 1, 2 and 3 then it will not boot.
Workaround	Use CPU socket 1 if populating the system with only one CPU. Use CPU sockets 1, 2 and 4 if populating the system with three CPUs.
Status	Fixed with baseboard D56804-605

10. Date in System Event Log (SEL) is one day ahead

Problem	The algorithm used by the system BIOS to calculate the current date for the BMC is one day ahead during a leap year.
Implication	The date for any event in the SEL will be logged as being one day ahead until March 1 st , 2008 (e.g. 1-15-08 is logged as 1-16-08). After March 1 st , 2008, all dates logged to the SEL will be accurate for the current date.
Workaround	None
Status	Fixed with BIOS R0023

11. LAN adapter on I/O riser may cause bus correctable events if driver is disabled

Problem	If the LAN driver is disabled when the device transitions from L1 (low power standby) to L0 (fully active link) it may generate a bus correctable event. This issue can occur more frequently when installing operating systems.
Implication	The LAN adapter on the I/O riser may cause bus correctable events to be logged to the SEL and cause the Global Fault LED to blink. There is no loss of data or system stability/reliability.
Workaround	If possible, ensure the LAN driver is enabled. If issue occurs during OS installation, no work-around is possible.
Status	Fixed in a future version of the OS, BIOS and/or LAN EEPROM image.

12. Automatic rebuild does not start after replacing HDD in hardware RAID configuration

Problem	The replaced HDD will get a different enclosure ID & slot number when it is first inserted. If the HDD is removed and reinserted it will receive the proper enclosure ID & slot number and the rebuild process will begin immediately.
Implication	If an HDD is replaced in a HW RAID configuration the automatic rebuild will not be started.
Workaround	Remove and reinsert the new HDD one additional time.
Status	Will Not Fix.

13. Intel® Remote Management Module 2 firmware may impact LCP firmware updates

Problem	During normal operations, the Intel® RMM2 and the server Baseboard Management Controller (BMC) routinely exchange management communications. The same bus used for Intel® RMM2 to BMC communication is used to update the LCP firmware (includes LCP OEM logo update).
Implication	Beginning with Intel® RMM2 firmware version 5990, the communication occurring on the path to the BMC will slow the communication to the LCP and may cause the LCP upgrade to not succeed.
Workaround	Remove the RMM2 module before any LCP FW update to the system.
Status	Fixed in a future version of the RMM2 firmware and/or BMC.

14. Intel® Server System S7000FC4UR SAS riser with an iBBU may not keep cache data valid during a power failure

Problem	The SAS riser slot on the Intel® Server System S7000FC4UR main board draws 1.8V power from a 12V power regulator. The storage controller manufacturer recommends adapters draw 1.8V from the 3.3V input to the adapter to ensure 1.8V falls slower than the 3.3V input.
Implication	When system power is lost the iBBU can take up to 400us to sense the drop in 1.8V and apply power to the RAID DIMM. A system with 1.8V drawn from a 3.3V power regulator would not have this delay. In lab testing this short delay put the RAID DIMM temporarily outside the memory vendors' specification. This could potentially lead to data stored in cache, and not yet written to disk, to be lost. If data integrity is compromised a message will be displayed on the next boot: "Controller cache discarded due to memory/battery problems." Intel has not been able to reproduce data integrity issues in a real-world environment and believes this risk is very low.
Workaround	To protect against sudden power loss, redundant power supplies and an Uninterruptable Power Supply (UPS) should be used.
Status	Fixed in version D56622-305 of the SAS riser, which controls the voltage regulator on its own.

15. Erroneous SEL entries due to noise on SMBUS

Problem	Noise may be generated on the SMBUS due to cross talk from the LED signal
Implication	Noise could cause the server system to not respond. SEL event 8300 may be seen in the System Event Log.
Workaround	RMA the Baseboard.
Status	Fixed in -602 Baseboard with label QAN 7001660 and the -605 Baseboard.

16. SAS Riser upgrade to Hardware RAID from Integrated RAID (IR) mode unsuccessful

Problem	Unable to update the SAS Riser to HWRAID from IR mode using the latest production BIOS R23
Implication	Upgrading the SAS Riser to HWRAID from IR mode may not successfully update with production BIOS R23.
Workaround	The SAS Riser can be upgraded using BIOS R20.
Status	Fixed with BIOS R25

17. Drive ID light may not remain lit

Problem	Seagate Savvio 10K.2 146GB drive (Part number ST9146802SS) green identification light does not light and remain lit.
Implication	Drive ID light does not remain lit.
Workaround	None
Status	Fixed in future release.

18. SATA cable interfere with memory boards on SFC4URX

Problem	SATA cable interfere with memory boards C/D on SFC4URX.
Implication	The x1 SATA cable and x4 SATA cable interfere with memory boards C/D.
Workaround	The end user must ensure the cables are inside the cable channel in the PCI bracket prior to memory board installation.
Status	Will Not Fixed.

19. Memory board latches interfere with top air duct on SFC4URX

Problem	Memory board latches interfere with top air duct on SFC4URX
Implication	Memory board latches interfere with top air duct during installation/removal on SFC4URX
Workaround	None
Status	Will Not Fixed.

20. Heatsink Filler Interference with Bottom Air Duct on SFC4URX

Problem	Heatsink filler interferes with bottom air duct on SFC4URX
Implication	Heatsink filler interferes with bottom air duct during installation/removal on SFC4URX
Workaround	None
Status	Will Not Fixed.

21. Upper air Baffle Processor location numbering do not match with base board on SFC4URX

Problem	Upper air Baffle Processor location numbering is wrong on SFC4URX
Implication	Upper air Baffle Processor location numbering do not match with base board on SFC4URX
Workaround	None
Status	Will Not Fixed.

22. BSOD(Blue Screen of Death) during power cycle testing when using Xeon® 7400 serial CPU and Windows server 2003*

Problem	System may has BSOD issue in power cycle testing when using Xeon® 7400 serial CPU and Windows server 2003*
Implication	If run “shutdown /s /t” command, and the “Do not turn off system power after a Windows system shutdown has occurred” option is enabled in Windows Server 2003*, system may occure BSOD issue in power cycle testing when using Xeon® 7400 serial CPU and Windows server 2003*. No impact to system due to system has been shut down when this issue occurred.
Workaround	Disable “Do not turn off system power after a Windows system shutdown has occurred” option.
Status	Will Not Fixed.

23. SLES (SUSE Linux Enterprise Server) 10 SP1/SP2 and VMware ESX 4.0* cannot be installed through CD/DVD with C71688-004 SATA-PATA board

Problem	SLES (SUSE Linux Enterprise Server) 10 SP1/SP2 and VMware ESX 4.0* cannot be installed through CD/DVD with C71688-004 SATA-PATA board
Implication	SLES (SUSE Linux Enterprise Server) 10 SP1/SP2 and VMware ESX 4.0* cannot be installed through CD/DVD with C71688-004 SATA-PATA board
Workaround	Set the SATA mode to AHCI by using the BIOS setup utility.
Status	Will Not Fixed.

24. Mouse action is slow in RAID BIOS console when connecting with rear USB port and using four Xeon® 7400 serial CPUs

Problem	Mouse action is slow in RAID BIOS console when connecting with rear USB port and using four Xeon® 7400 serial CPUs
Implication	Mouse action is slow in RAID BIOS console when connecting with rear USB port and using four Xeon® 7400 serial CPUs
Workaround	Connect the mouse to the front USB port or operate by keyboard using [TAB] key.
Status	Fixed in future release.

25. SLES (SUSE Linux Enterprise Server) 10 SP1 cannot boot after installation when loading ESRT2 RAID driver from USB floppy

Problem	SLES (SUSE Linux Enterprise Server) 10 SP1 cannot boot after installation when loading ESRT2 RAID driver from USB floppy.
Implication	SLES (SUSE Linux Enterprise Server) 10 SP1 cannot boot after installation when loading ESRT2 RAID driver from USB floppy because USB floppy will change the boot device's name.
Workaround	During the installation, edit the partition you are going to install to and choose "fstab options". Put a checkmark in "UUID", and the OS will boot correctly after installation.
Status	Will Not Fixed.

26. The network connection of IO Riser Ethernet port may not be stable when connecting with crossover cable

Problem	The network connection of IO Riser Ethernet port may not be stable when connecting with crossover cable.
Implication	The network connection of IO Riser Ethernet port may not be stable when connecting with crossover cable.
Workaround	Remove and re-insert the crossover cable can recover the network connection.
Status	Fixed in D54846-205 IO Riser.

27. The IPMI chassis reset command may cause uncorrectable memory ECC error.

Problem	The IPMI chassis reset command may cause uncorrectable memory ECC error.
Implication	The IPMI chassis reset command drives a hard DC power reset at the power supply regardless of the state of data within the system. And it may cause error bits within the registers to be set while the power is failing.
Workaround	Not recommend to use IPMI chassis reset command.
Status	Fixed with BIOS R30 and BMC 22.

28. Intel® Active System Console may fail to detect the status of memory board thermal margin sensors.

Problem	Intel® Active System Console may fail to detect the status of memory board thermal margin sensors.
Implication	Intel® Active System Console may read incorrect thermal margin threshold for memory boards, and show the system in false critical status.
Workaround	None.
Status	Fixed in future FRUSDR release.

Documentation Changes

1. Hard drive LEDs are not illuminated when SATA drives are used

Problem Operation of the HDD LED for a SATA drive is to remain off when the drive is ready and blink ON for activity.

Status This will be included in a future documentation update

2. Hibernation mode is not supported on the Intel® Server System S7000FC4UR

Problem The Intel® Server System S7000FC4UR does not support hibernation mode under any circumstances on any operating system.

Status This will be included in a future documentation update

3. Using 6 DIMMs on a single memory board is not listed as a supported configuration in the in the Intel® Server System S7000FC4UR Technical Product Specification

Problem The Intel® Server System S7000FC4UR Technical Product Specification does not list using 6 DIMMs on a single memory board as a supported configuration.

Status This will be included in a future documentation update

4. The Intel® Server System S7000FC4UR has a BIOS setup option to disable TPM functionality for customers selling into countries with laws prohibiting encryption

Problem This BIOS feature is not specifically detailed in the system documentation.

Status This will be included in a future documentation update

5. AC power must be removed for more than 1 minute when attaching or removing the Intel® Local Control Panel (LCP)

Problem The LCP module has active 5 volt standby power supplied by the front panel cable. If the LCP module connection is altered (removed or attached) while AC power is active the LCP may become inoperable.

Status Updated handling instruction will be included in a future documentation update

6. System Event Log (SEL) uses different sensor type than specified when system is booted with no processors installed

Problem If the system is booted with no processors installed, the BMC will log an event using a sensor type that is different than the sensor type specified in the BMC EPS.

Status The BMC EPS will be modified in a future documentation update

7. Intel® Server System S7000FC4UR Technical Product Specification incorrectly lists the number of hot-plug slots

Problem In section 2.2.4 the TPS incorrectly lists the number of hot-plug slots as four when only two exist.

Status The TPS will be modified in a future documentation update

8. On-board NIC status LED behavior is not consistent with Intel® Server System S7000FC4UR Technical Product Specification

Problem If no NIC connection exists, the behavior of the status LED is not consistent with the TPS. Please see the table below for further detail:

	Information in TPS	Real Case			
		With cable connect		Without cable connect	
		Post	Inside OS	POST	Inside OS
Status LED (Green)	On – ethernet link is detected Off – no ethernet connection Blinking – ethernet link is active	Blinks green	Blinks green	On – Continuously green	Off
Speed LED (Green/Amber dual color)	Off – 10 Mbps Green On – 100 Mbps Amber On – 1000	Green on	Green on	Off	Off

	Mbps			
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Status The TPS will be modified in a future documentation update

9. Intel® Server System S7000FC4UR BIOS External Product Specification lists incorrect definition of SEL entry format for Memory Sensor Type

Problem In table 61 the BIOS EPS lists incorrect definition of SEL entry format for memory sensor type. Please see the table below for further detail:

Table 61. SEL Entry Format — Memory Sensor Type

Byte	Field	IPMI Description	BIOS Implementation
16	Event Data 3 (ED3)	Bit [7:0] OEM value or unspecified	The BIOS sends this to the BMC: Memory module/device identification <ul style="list-style-type: none"> ■ Bit[7:6] = Index into SMBIOS Type 16 entry. ■ For Intel server boards using the Clarksboro chipset this shall be the zero based memory riser board number. ■ Bit[5:0] = Index (Zero based) into SMBIOS Type17 entry for the failed FBDIMM slot number minus one.

In table 62 the BIOS EPS lists incorrect memory sensor type examples. The “Bit[0:5]” of “Event Data 3” should be zero based.

Table 62. SEL Entry Format — Memory Sensor Type Examples

Error Type	Event Data 1	Event Data 2	Event Data 3
Correctable ECC Memory Error Memory Riser Board A, FBDIMM 6	0x20	0xFF	0x05 Bit [7:6] = 00 Bit [5:0] = 05
Uncorrectable ECC Memory Error Memory Riser Board B, FBDIMM 5	0x21	0xFF	0x44 Bits [7:6] = 01 Bits [5:0] = 04

Status The BIOS EPS will be modified in a future documentation update