



# Intel<sup>®</sup> SC5000 Server Chassis Specification Update

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The SC5000 server chassis 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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## REVISION HISTORY

<b>Date of Revision</b>	<b>Description</b>
November, 2000	This document is the first Specification Update for the SC5000 server chassis.

**PREFACE**

This document is an update to the specifications contained in the SC5000 server chassis *Technical Product Specification* (Order Number 248736). 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 associated with the SC5000 chassis only.

Refer to the *L440GX+ Technical Product Specification Update* for updates concerning the L440GX+ server board.

Refer to the *STL2 Technical Product Specification Update* for updates concerning the STL2 server board.

Refer to the *SBT2 Technical Product Specification Update* for updates concerning the SBT2 server board.

Refer to the *Pentium<sup>a</sup> III Processor Specification Update* for updates concerning the Pentium III processor.

Refer to the *Intel 82440GX PCIset Specification Update* for updates concerning the Intel 82440GX AGPset.

**Nomenclature**

**Specification Changes** are modifications to the current published specifications for the SC5000 Server Chassis. These changes will be incorporated in the next release of the specifications.

**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 specifications.

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

**Errata** are design defects or errors. Errata may cause the SC5000 Server Chassis's 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.

**Specification Update for  
the Intel SC5000 Server Chassis**





**GENERAL INFORMATION***Identification Information*

Below are the specific chassis, boards, components, and firmware covered by this Specification Update.

<b>Product Code</b>	<b>MM #</b>	<b>TA#</b>	<b>HSC Firmware Rev.</b>	<b>Hot Swap SCSI Backplane PBA#</b>	<b>SAF-TE Card PBA#</b>	<b>Power Supply Part Number</b>
KHDBASEU	830612	A27152-002	N/A	N/A	N/A	747566-002
KHDHSU	830610	A27154-002	v. 0.01	732396-502	A29101-401	747566-002
KHDHSRPU	830611	A27155-002	v. 0.01	732396-502	A29101-401	737180-009

*Summary Table of Changes*

The following tables indicate the Errata and the Document Changes that apply to the SC5000 2U Server Chassis. Intel intends to fix many of the errata listed in this document and to account for the other outstanding issues through documentation or specification changes as noted. These tables use the following notations:

**CODES USED IN SUMMARY TABLE**

Add: This item will be added to the specified document(s) in a future revision.

Fix: This item will be fixed in a future release.

Fixed: This item has been addressed.

NoFix: There are no plans to fix this item.

Shaded: This item is either new or modified from the previous version of the document.

#	Plan	ERRATA
1	Fix	SC5000 chassis fault LED is always lit when the STL2 server board is installed
2	NoFix	SC5000 chassis HSC firmware update is not possible with the STL2 server board installed

#	Plan	Document	DOCUMENT CHANGES

**ERRATA*****1. SC5000 chassis fault LED is always lit when the STL2 server board is installed***

**PROBLEM:** The SC5000 chassis front panel board combines the power LED signal with the fan fault LED signal into a single system fault LED. The STL2 server board implements the power fault LED signal (pin 8 of the front panel connector) as a High True signal. The fan fault LED signal (Pin 6 of the front panel connector) is implemented as a Low True signal. The mixing of the High True power fault LED signal and the Low True fan fault LED signal results in the system fault LED being illuminated whenever power is applied to the system.

**IMPLICATION:** The system fault LED will be illuminated whenever power is applied to the system when the STL2 board is installed in the SC5000 chassis.

**WORKAROUND:** The STL2 Server boxed board (STL2) includes an alternate front panel cable (Intel part number A37010-001) for use with the SC5000 chassis. A front panel cable spare kit (FTLFPCBL, MM# 832781) will be available for customers taking the BTLBB SKU that need to use this cable. The alternate front panel cable effectively removes the physical fan fault LED signal from the system fault LED circuit by disconnecting front panel pins 4 and 6, and also re-routes the power fault LED signal from pin 8 to pin 4. The alternate cable needs to be used in combination with a modified STL2 BMC firmware, version 11.16, that routes both the power and fan fault LED signals to pin 8 on the STL2 server board, thus forming a single system fault LED. STL2 BMC firmware version 11.16 is included on the STL2 boxed board country kit CDROM and is also available for download from the web at [http://support.intel.com/support/motherboards/server/stl2/stl2\\_fw\\_1116.htm](http://support.intel.com/support/motherboards/server/stl2/stl2_fw_1116.htm).

**STATUS:** Fix. This erratum will be fixed in a future FAB of the STL2 server board.

***2. SC5000 chassis HSC firmware update is not possible with the STL2 or SBT2 server boards installed***

**PROBLEM:** It is not possible to update the SC5000 chassis' HSC firmware with the STL2 or the SBT2 server board installed in the chassis. This is because the STL2 and SBT2 server boards do not support an I2C interface connection between the server board and the chassis' hot swap backplane / SAF-TE card. The universal version of the SC5000 chassis includes the latest version of HSC firmware available. Any changes to the chassis HSC firmware will be incorporated by the ECO process.

**IMPLICATION:** It is not possible to update the SC5000 chassis' HSC firmware with the STL2 or the SBT2 server board installed.

**WORKAROUND:** It is possible to update the SC5000 chassis' HSC firmware with the L440GX+ server board installed. If a non-universal version of the SC5000 chassis requires an update to the HSC firmware, a L440GX+ board may be installed in the chassis in order to perform the HSC firmware update.

**STATUS:** NoFix.