SC5250-E Server Chassis

Specification Update

May, 2003

Enterprise Platforms and Services Marketing

Revision History

Date	Modifications
3-2003	Initial release.
4-2003	Second release.
5-2003	Third Release

Disclaimers

The SC5250-E Server Chassis 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.

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.

Contents

Preface

This document is an update to the specifications contained in the *SC5250-E Server Chassis Technical Product Specification* (Order Number C32881-001). 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 *Intel® Pentium® III Xeon™ Processor Specification Update* (Order Number 244460-021) for specification updates concerning the Pentium® Xeon™ III processor. Items contained in the *Pentium® III Xeon™ Processor 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.

Nomenclature

- **Specification Changes** are modifications to the current published specifications for the SE7505VB2 server boards. 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 SBT2 server board'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.

Product Scope

Below are the specific SC5250-E chassis components covered in this document.

Chassis SKUs

Product Code	MM #	UPC	Quantity	Description
KPTBASE450	852511	735858159456	1	Intel Server Chassis SC5250-E w/ beige bezel
KPTBASE450BLK	852295	007358581509647	1	Intel Server Chassis SC5250-E w/ black bezel

Chassis Subassembly Components

Description	PBA # or Module #
SC5250-E Front Panel	C26802-101
450W Power Supply Unit	A85459-005

SC5250-E Spares and Accessories Components

Product Code	MM #	UPC	Description
AXX2HSDRVUG	835948	7 35858 14630 2	Hot swap SCSI Drive Upgrade Kit Base KDK SKU to five hot swap SCSI Drives

FPTPMKIT	852425	735858159722 1	Preventative Maintenance Kit
			• One Front Panel Board
			• One Front Panel cable
			• One USB cable
			• One Intrusion Switch/cable
			• One 92MM fan
			• One 120MM fan with fan guard attached
			• One box of hardware which consist of:
			  - Two left side peripheral rails
			  - Two right side peripheral rails
			  - One lock plate
			  - Fifteen standoffs for server board mounting
			  - Nine screws to mount RM
			  - 38 screws to mount server board, etc (common screw)
			  - Eleven countersunk screws to mount CDROM, floppy, etc
			  - Four screws to mount fan to a hot swap bay
			  - Four tie wraps for cable management
			  - One cable clamp for cable management
			  - One cable tie to cable management with hot swap bay
			  - One rubber bumper for server board mounting
			  - Two mounting brackets for hot swap bay

Product Code	MM #	UPC	Description
FPTCOSMKIT	852424	735858159739	Cosmetic kit • One black bezel • One dusty beige bezel • Four chassis feet • Two side cover latches
FHD3PS450	844924	7 35858 15351 5	Non-Redundant 450W Power Supply for SC5250-E Base Chassis

Summary Tables of Changes

The following tables indicate the errata and the document changes that apply to the SC5250-E Server Chassis. 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 a future release of the component.

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.	Fixed	PCI card brackets difficult to install on SC5250-E and may require exerting pressure
2.	Fixed	Intrusion switch on Intel® Server Chassis SC5250-E is wired incorrectly
3.	Fixed	Integration issues with S845WD1 Intel based server board

Table 2. Documentation Changes

No.	Plans	Description of Documentation Change
1.	To be fixed	Quick Start User's Guide missing information for fan support when integrating SE7501BR2 with SC5250-E

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.   PCI card brackets difficult to install

Problem: Some PCI card brackets may be hard to install on SC5250-E and may require some pressure to correctly seat the card.

Implication: The user may need to exert pressure on the card and card bracket to correctly seat the card. In instances of very thick PCI brackets, the card might not install without enlarging the lance slightly with a manual tool.

Workaround: Exert pressure on the card or use a tool to slightly enlarge the lance.

Status: Intel has implemented fixes on the tooling to correct this issue for all new chassis builds.

2.   Chassis status incorrectly reported

Problem: The intrusion switch on Intel® Server Chassis SC5250-E is incorrectly wired. Because of this, server management software incorrectly report the chassis status.

Implication: LanDesk* Client Manager (LDCM) and and Intel® Server Management (ISM) software reports incorrect chassis events on systems that are based on Intel server boards SE7505VB2 and SE7501BR2 in the SC5250-E chassis.

Workaround: Disable the chassis intrusion option on your Intel based server board by removing cable and replacing it with a jumper. If required, replacement chassis intrusion cables may be ordered from customer support.

Status: Intel has fixed this cable issue for all new SC5250-E builds

3.   Integration issues found with Intel® Server Board S845WD1

Problem: Integration issues have been identified when integrating the Intel Server Board S845WD1 with the server chassis SC5250-E. Issues include fan header under capacity condition, and a tab on the USB header that prevents integration

Implication: The fan header for the 120mm fan does not have sufficient capacity and the tab on the USB header prevents the use of the USB header.

Workaround: None.

Status: Intel has implemented S845WD1 Engineering changes and SC5250-E USB cable changes to fix these integration issues

Documentation Changes

1.   Quick Start User's Guide missing information for fan support when integrating SE7501BR2 with SC5250-E

Problem: The Intel Server Board QSG and Product guide is missing instructions for connecting the chassis fans for SC5250-E on a SE7501BR2

Implication: The user may not be able to manage the chassis fans for the server board on the SC5250-E configuration.

Workaround: Support for SC5250-E for SE7501BR2 integration, has been included with 5.5.E release This new FRUSDR 5.5.E, when installed in an Intel SC5250-E will enable "SYS FAN 2" and "SYS FAN 5" fan sensors in the SE7501BR2 server board. In order to properly monitor the fans, the 120 MM fan must be connected to the "SYS FAN 2" header and the 90MM hard drive fan must be connected to the "SYS FAN 5" header on the SE7501BR2 board.

Fix: Will be fixed in a future release of the QSG and PG for SE7501BR2 .