



# Intel® Desktop Board DH61BE Specification Update

December 2011

Order Number: G27745-003

The Intel® Desktop Board DH61BE may contain design defects or errors known as errata, which may cause the product to deviate from published specifications. Current characterized errata are documented in this Specification Update.

# Revision History

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Revision	Revision History	Date
-001	This document is the first Specification Update for the Intel® Desktop Board DH61BE	March 2011
-002	Update to the General Information Section and the Specification Changes Section	April 2011
-003	PCI cards errata	December 2011

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The Intel® Desktop Board DH61BE may contain design defects or errors known as errata which may cause the product to deviate from published specifications. Current characterized errata are available on request.

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# Specification Update for the Intel<sup>®</sup> Desktop Board DH61BE

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This document is an update to the specifications contained in the *Intel<sup>®</sup> Desktop Board DH61BE Technical Product Specification* (Order Number: G23554). It is intended for hardware system manufacturers and software developers of applications, operating systems, or tools. It will contain Specification Changes, Errata, Specification Clarifications, and Documentation Changes.

Refer to the *2nd Generation Intel<sup>®</sup> Core<sup>™</sup> Processor Family Specification Update* (Order Number: 457991) for specification updates concerning the *2nd Generation Intel<sup>®</sup> Core<sup>™</sup> Processor Family* that may apply to the desktop board DH61BE. Unless otherwise noted in this document, it should be assumed that any Processor errata for a given stepping are applicable to the Altered Assembly (AA) revision(s) associated with that stepping.

Refer to the *Intel<sup>®</sup> 6 Series Chipset and Intel<sup>®</sup> C200 Series Chipset Specification Update* (Order Number: 440377) for specification updates concerning the Intel<sup>®</sup> H61 Express Chipset that may apply to the desktop board DH61BE. Unless otherwise noted in this document, it should be assumed that any Platform Controller Hub errata for a given stepping are applicable to the Altered Assembly (AA) revision(s) associated with that stepping.

# Terminology

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

**Errata** are design defects or errors. Characterized errata may cause the desktop board behavior to deviate from published specifications. Hardware and software designed to be used with any given Altered Assembly (AA) and BIOS revision level must assume that all errata documented for that AA and BIOS revision level are present on all desktop boards.

**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.

# General Information

## Basic Desktop Board DH61BE Identification Information

AA Revision	BIOS Revision	Notes
G14062-203	BEH6110H.86A.0016	1,2
G14062-204	BEH6110H.86A.0016	1,2
G14062-205	BEH6110H.86A.0016	1,2
G14062-206	BEH6110H.86A.0020	1,2
G14062-207	BEH6110H.86A.0020	1,2
G14062-208	BEH6110H.86A.0032	1,2
G14063-204	BEH6110H.86A.0016	1,2
G14063-205	BEH6110H.86A.0016	1,2
G14063-206	BEH6110H.86A.0020	1,2
G14063-207	BEH6110H.86A.0020	1,2
G14063-208	BEH6110H.86A.0032	1,2

Notes:

1. The AA number is found on a small label on the component side of the board.
2. The Intel® H61 PCH Express Chipset used on this AA revision consists of the following component:

Device	Stepping	S-Spec Numbers
82H61	B3	SLJ4B

## Summary of Changes

The following table indicates the Specification Changes, Errata, Specification Clarifications, or Documentation Changes that apply to the Intel® Desktop Board DH61BE. Intel intends to fix some of the errata in a future revision of the desktop board, and to account for the other outstanding issues through documentation or specification changes as noted.

The following notations are used in the table:

Doc:	Document change or update that will be implemented.
Plan Fix:	This erratum may be fixed in a future revision of the desktop board, driver, or BIOS.
Fixed:	This erratum has been previously fixed.
No Fix:	There are no plans to fix this erratum.
Shaded:	This erratum is either new or modified from the previous version of the document.

No.	Plans	Specification Changes
1	Doc	The Intel® H61 Express Chipset does not support RAID. References to RAID in the Technical Product Specification will be deleted in the next revision of the manual.
2	Doc	The maximum memory supported will be changed from 16 GB to 8 GB in all affected sections of the Technical Product Specification in the next revision of the manual.
No.	Plans	Errata
1	Plan Fix	PCI cards

## Specification Changes

The Specification Changes listed in this section apply to the *Intel® Desktop Board DH61BE Technical Product Specification* (Order Number G23554).

1. The Intel H61 Express Chipset does not support RAID. References to RAID in Technical Product Specification will be deleted in the next revision of the manual. The following sections of the manual are affected:
  - Table 1 Feature Summary
  - Section 1.9.1.1 Serial ATA RAID
  - Section 1.9.1.2 Intel® Rapid Recover Technology
  - The Caution in Section 3.1 Introduction

2. The maximum memory supported will be changed from 16 GB to 8 GB in the following sections of the Technical Product Specification in the next revision of the manual:
  - Table 1 Feature Summary
  - Section 1.6 System Memory
  - Section 2.1.1 Addressable Memory
  - Figure 8 Detailed System Memory Address Map
  - Table 9 System Memory Map

## Errata

### 1. **PCI cards that utilize a PCI Express\* to PCI bridge component may not work with Intel® Desktop Boards based on the Intel® 6 Series Chipset.**

**Problem:** Intel® Desktop Boards DP67DE, DP67BA, DZ68DB, DH67BL, DH67GD, DH67CL, DH61SA, DH61CR, DH61BE, and DH61WW do not support PCI add in cards that utilize a PCI Express to PCI bridge component. A resource conflict between the affected board and the PCI Express to PCI bridge component included in some PCI card designs (usually video cards, and digital video capture cards) results in the PCI card not being recognized by BIOS and not functioning.

**Implication:** PCI cards utilizing a PCI Express to PCI bridge chip will not be recognized or function when plugged into any PCI slot on the affected Intel Desktop boards.

PCI cards that do not include a PCI Express to PCI bridge chip will operate normally.

**Workaround:** None.

**Status:** This problem may be fixed on future releases of these Intel Desktop Board products.