



Intel[®] Desktop Board D945GCNL Specification Update

January 2009

Order Number: E11671-004US

The Intel[®] Desktop Board D945GCNL 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

Revision	Revision History	Date
-001	This document is the first Specification Update for the Intel® Desktop Board D945GCNL.	June 2007
-002	Update to General Information Section.	January 2008
-003	Update to General Information Section.	July 2008
-004	Update to General Information Section.	January 2009

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The Intel® Desktop Board D945GCNL 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.

Contact your local Intel sales office or your distributor to obtain the latest specifications before placing your product order.

Copies of documents which have an ordering number and are referenced in this document, or other Intel literature, may be obtained from:

Intel Corporation
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or call in North America 1-800-548-4725, Europe 44-0-1793-431-155, France 44-0-1793-421-777, Germany 44-0-1793-421-333, other Countries 708-296-9333

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Specification Update for the Intel[®] Desktop Board D945GCNL

This document is an update to the specifications contained in the *Intel[®] Desktop Board D945GCNL Technical Product Specification* (Order Number D98466). 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.

For specification updates concerning the Intel processor that may apply to this desktop board, refer to the following:

- *Intel[®] Core[™]2 Duo Desktop Processor E6000 Δ and E4000 Δ Sequence Specification Update* (Order Number: 313279)
- *Intel[®] Pentium[®] Dual-Core Desktop Processor E2000 Δ Sequence Specification Update* (Order Number: 316982)
- *Intel[®] Celeron[®] Processor 400 Δ Sequence Specification Update* (Order Number: 316964)
- *Intel[®] Pentium[®] D Processor 900 Δ Sequence Specification Update* (Order Number: 310307)
- *Intel[®] Pentium[®] D Processor 800 Δ Sequence Specification Update* (Order Number: 306832)
- *Intel[®] Pentium[®] 4 Processor 6x1 Δ Sequence Specification Update* (Order Number: 310309)
- *Intel[®] Pentium[®] 4 Processor Specification Update* (Order Number: 249199)

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[®] 945 Express Chipset Family Specification Update* (Order Number: 307503) for specification updates concerning the 82945GC GMCH Controller and that may apply to the desktop board D945GCNL. Unless otherwise noted in this document, it should be assumed that any MCH errata for a given stepping are applicable to the Altered Assembly (AA) revision(s) associated with that stepping.

Refer to the *Intel[®] IO Controller Hub7 (ICH7) Family Specification Update* (Order Number: 307014) for specification updates concerning the 82801GB I/O Controller Hub and that may apply to the desktop board D945GCNL. Unless otherwise noted in this document, it should be assumed that any ICH7 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 D945GCNL Identification Information

AA Revision	BIOS Revision	Notes
D97184-102	NL94510J.86A.0010	1,2
D97184-103	NL94510J.86A.0010	1,2
D97184-104	NL94510J.86A.0010	1,2
D97184-105	NL94510J.86A.0017	1,2
D97184-106	NL94510J.86A.0025	1,2
D97184-107	NL94510J.86A.0025	1,2
D97186-102	NL94510J.86A.0010	1,2
D97186-103	NL94510J.86A.0010	1,2
D97186-104	NL94510J.86A.0010	1,2
D97186-105	NL94510J.86A.0017	1,2
D97186-106	NL94510J.86A.0025	1,2
D97186-107	NL94510J.86A.0025	1,2

Notes:

1. The AA number is found on a small label on the component side of the board.
2. The 945 Chipset kit used on this AA revision consists of two components as follows:

Device	Stepping	S-Spec Numbers
82945GC	A2	SLA9C
82801GB	A1	SL8FX

Summary of Changes

The following table indicates the Specification Changes, Errata, Specification Clarifications, or Documentation Changes that apply to the Intel® Desktop Board D945GCNL. 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	Errata
		There are no characterized erratum for this product