



Intel[®] Desktop Board DG965MQ Specification Update

December 2007

Order Number: D65912-004US

The Intel[®] Desktop Board DG965MQ 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 DG965MQ.	August 7, 2006
-002	Updated General Information table and added Specification Change 1.	October 2006
-003	Updated General Information table and added Specification Change 2.	January 2007
-004	Updated General Information table.	December 2007

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The Intel® Desktop Board DG965MQ 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 DG965MQ

This document is an update to the specifications contained in the *Intel® Desktop Board DG965MQ Technical Product Specification* (Order Number D56013). 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 Extreme Processor X6800Δ and Intel® Core™2 Duo Desktop Processor E6000Δ Sequence Specification Update (Order Number 313279)
- Intel® Pentium® D Processor 900Δ Sequence and Intel® Pentium® Processor Extreme Edition 955Δ, 965Δ Specification Update (Order Number 310307)
- Intel® Pentium® D Processor 800Δ Sequence and Intel® Pentium® Processor Extreme Edition 840Δ Specification Update (Order Number 306832)
- Intel® Pentium® 4 Processor 6x1Δ 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® 965 Express Chipset Family Specification Update* (Order Number 313054) for specification updates concerning the 82G965 GMCH Controller and that may apply to the desktop board DG965MQ. 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 Hub8 (ICH8) Family Specification Update* (Order Number 313057) for specification updates concerning the 82801HH I/O Controller Hub and that may apply to the desktop board DG965MQ. Unless otherwise noted in this document, it should be assumed that any ICH8 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 DG965MQ Identification Information

AA Revision	BIOS Revision	Notes
D37419-302	MQ96510J.86A.0784	1,2
D37419-303	MQ96510J.86A.0784	1,2
D37419-304	MQ96510J.86A.1577	1,2
D37419-305	MQ96510J.86A.1612	1,2
D37419-306	MQ96510J.86A.1612	1,2
D37419-307	MQ96510J.86A.1687	1,2
D37419-308	MQ96510J.86A.1687	1,2

NOTES:

1. The AA number is found on a small label on the component side of the board.
2. The 946 Chipset kit used on this AA revision consists of two components as follows:

Device	Stepping	S-Spec Numbers
82G965	C2	SL9R5
82801HH	B0	SL9ML
82801HR	B0	SL9MK

Summary of Changes

The following table indicates the Specification Changes, Errata, Specification Clarifications, or Documentation Changes that apply to the Intel® Desktop Board DG965MQ. 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	Changes to Section 1.7.2 Audio Connectors.
2	Doc	Changes to Section 1.8.1 Intel® 82566DC Gigabit Ethernet Controller.
No.	Plans	Errata
		There are no characterized erratum for this product

Specification Changes

1. The following note will be added to the Technical Product Specification in Section 1.7.2 Audio Connectors:

INTEGRATOR'S NOTES

Electrostatic discharge (ESD) can damage desktop board components. Front-panel connectors should provide sufficient protection to prevent ESD damage to components inside the chassis enclosure.

2. Section 1.8.1 of the Technical Specification will be updated in its entirety as follows to remove reference to Jumbo frame support.

1.8.1 Intel® 82566DC Gigabit Ethernet Controller

The Intel® 82566DC Gigabit Ethernet Controller supports the following features:

- PCI Express link
- 10/100/1000 IEEE 802.3 compliant
- Compliant to IEEE 802.3x flow control support
- TCP, IP, UDP checksum offload
- Transmit TCP segmentation
- Advanced packet filtering
- Full device driver compatibility
- PCI Express Power Management Support