



Intel® Desktop Board D915GMH Specification Update

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The Intel® Desktop Board D915GMH 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.

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The Intel® desktop board D915GMH 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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REVISION HISTORY

Date of Revision	Version	Description
November 22, 2004	-001	This document is the first Specification Update for the Intel® Desktop Board D915GMH.
February 2005	-002	Added Documentation Change 1.
March, 2005	-003	Added Erratum 1.
July 2006	-004	Updated General Information table.



PREFACE

This document is an update to the specifications contained in the *Intel® Desktop Board D915GMH Technical Product Specification* (Order number C81296). 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 *Intel® Pentium® 4 Processor Specification Update* (Order number 249199) for specification updates concerning the Intel Pentium 4 processor and that may apply to the desktop board D915GMH. 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® 915G and 915P Chipset: Specification Update* (Order Number 301468) for specification updates concerning the 82915G MCH Controller and that may apply to the desktop board D915GMH. 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 Hub 6 (ICH6) Family Specification Update* (Order Number 301474) for specification updates concerning the 82801ER I/O Controller Hub and that may apply to the desktop board D915GMH. Unless otherwise noted in this document, it should be assumed that any ICH 6 errata for a given stepping are applicable to the Altered Assembly (AA) revision(s) associated with that stepping.

Nomenclature

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 D915GMH's 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.

**Specification Update for the
Intel® Desktop Board D915GMH**



GENERAL INFORMATION

Basic Desktop Board D915GMH Identification Information

AA Revision	BIOS Revision	Notes
C68829-202	EV91510A.86A.0283	1-2
C68829-203	EV91510A.86A.0283	1-2
C68829-204	EV91510A.86A.0401	1-2
C68829-205	EV91510A.86A.0469	1-2
C68830-202	EV91510A.86A.0283	1-2
C68830-203	EV91510A.86A.0401	1-2
C68830-204	EV91510A.86A.0444	1-2
C68832-203	EV91510A.86A.0283	1-2
C68832-204	EV91510A.86A.0401	1-2
C68832-205	EV91510A.86A.0444	1-2

NOTES:

1. The AA number is found on a small label on the component side of the board.
2. The 82915G Chipset kit used on this AA revision consists of two components as follows:

Device	Stepping	S-Spec Numbers
82915G GMCH	B1	SL7LX
82801FB ICH6	B2	SL7AG



Summary Table of Changes

The following table indicates the Specification Changes, Errata, Specification Clarifications, or Documentation Changes that apply to the Intel® Desktop Board D915GMH. 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. This table uses the following notations:

CODES USED IN SUMMARY TABLE

Doc:	Document change or update that will be implemented.
PlanFix:	This erratum may be fixed in a future revision of the desktop board, driver, or BIOS.
Fixed:	This erratum has been previously fixed.
NoFix:	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
1	Plan Fix	Wake On LAN may not function after loss and restore of AC power
NO.	PLANS	DOCUMENTATION CHANGES
1	Doc	Incorrect operating voltage listed for supported memory in Section 1.6, System Memory



ERRATA

1. *Wake On LAN May Not Function After Loss and Restore of AC Power*

PROBLEM: If AC power is removed, Wake On LAN may not function until the LAN circuit is re-initialized. The sequence of events is as follows:

- AC power removed (AC power cord disconnected, for example)
- AC power restored. +5V Standby voltage is re-applied to the board
- Wake On LAN may not be functional
- Switch power on
- Switch power off to put system back into Standby mode (S5 state)
- Wake On LAN functionality restored

IMPLICATION: Wake on LAN will not function if AC power is interrupted.

WORKAROUND: In the BIOS Setup program, set After Power Failure to "Power On" in the Power Menu.

STATUS: This erratum may be fixed in a future BIOS revision.



DOCUMENTATION CHANGES

The Documentation Changes listed in this section apply to the *Intel® Desktop Board D915GMH Technical Product Specification* (Order number C681296). All Documentation Changes will be incorporated into a future version of that specification.

1. *Incorrect Operating Voltage Listed for Supported Memory in Section 1.6, System Memory*

Section 1.6, page 18, incorrectly lists the operating voltage for supported memory as 2.5 V. The correct operating voltage is 2.6 V. The first item in the bulleted list in Section 1.6 will be replaced with the following:

- 2.6 V (only) DDR SDRAM DIMMs with gold-plated contacts