



Intel® Desktop Board D101GGC Specification Update

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The Intel® Desktop Board D101GGC 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 D101GGC 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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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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REVISION HISTORY

Date of Revision	Version	Description
October 28, 2005	-001	This document is the first Specification Update for the Intel® Desktop Board D101GGC.
September 2006	-002	Updated AA numbers listed in General Information Table. Added Specification Change 1 and Documentation Change 1.
November 2006	-003	Added Specification Changes 2 and 3.



PREFACE

This document is an update to the specifications contained in the *Intel® Desktop Board D101GGC Technical Product Specification* (Order number D36105). 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 D101GGC. 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 ATI website for product advisories for specification updates concerning the Radeon Xpress 200 (RC410 + IXP450) that may apply to the desktop board D101GGC. Unless otherwise noted in this document, it should be assumed that any northbridge or southbridge 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 D101GGC'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 D101GGC



GENERAL INFORMATION

Basic Desktop Board D101GGC Identification Information

AA Revision	BIOS Revision	Notes
D35788-301	GC11010N.86A.0302	1-2
D35788-302	GC11010N.86A.0302	1-2
D35788-303	GC11010N.86A.0302	1-2
D35788-304	GC11010N.86A.0303	1-2
D35788-305	GC11010N.86A.0303	1-2
D35788-306	GC11010N.86A.0303	1-2
D35788-307	GC11010N.86A.0311	1-2
D35788-308	GC11010N.86A.0311	1-2
D35788-309	GC11010N.86A.0311	1-2
D33947-301	GC11010N.86A.0302	1-2
D33947-302	GC11010N.86A.0302	1-2
D33947-303	GC11010N.86A.0302	1-2
D33947-304	GC11010N.86A.0303	1-2
D33947-305	GC11010N.86A.0303	1-2
D33947-306	GC11010N.86A.0303	1-2
D33947-307	GC11010N.86A.0311	1-2
D33947-308	GC11010N.86A.0311	1-2
D33947-309	GC11010N.86A.0311	1-2

NOTES:

1. The AA number is found on a small label on the component side of the board.
2. The ATI Radeon Xpress 200 Chipset kit used on this AA revision consists of two components as follows:

Device	Stepping	S-Spec Numbers
RC410 Northbridge	A13	N/A
IXP450 Southbridge	A13	N/A



Summary Table of Changes

The following table indicates the Specification Changes, Errata, Specification Clarifications, or Documentation Changes that apply to the Intel® Desktop Board D101GGC. 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.
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	Change Section 1.10.1 Fan Monitoring
2	Doc	Change Section 2.7.1 Back Panel Connectors
3	Doc	Change Section 3.3.2 PCI IDE Support
NO.	PLANS	ERRATA
		There is not characterized erratum for this product
NO.	PLANS	DOCUMENTATION CHANGES
1	Doc	Change to Section 3.9, BIOS Security Features



SPECIFICATION CHANGES

The Specification Changes listed in this section apply to the Intel® Desktop Board D101GGC Technical Product Specification (Order Number D36105). All Specification Changes will be incorporated into a future version of that specification.

1. *Change to Section 1.10.1 Fan Monitoring*

Section 1.10.1 Fan Monitoring will change in its entirety as follows:

1.10.1 Fan Monitoring

Fan monitoring can be implemented using third-party software.

For information about

The functions of the fan connectors

Refer to

Section 1.11.2.2, page 27

2. ***The following note will be added to the Technical Product Specification in Section 2.7.1 Back Panel 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.

3. ***Reference to support for second-generation SATA drives is being removed. Section 3.3.2 PCI IDE Support will change its entirety as follows:***

3.3.2 PCI IDE Support

If you select Auto in the BIOS Setup program, the BIOS automatically sets up the PCI IDE connector with independent I/O channel support. The IDE interface supports hard drives up to ATA-66/100 and recognizes any ATAPI compliant devices, including CD-ROM drives, tape drives, and Ultra DMA drives. The interface also supports SATA drives. The BIOS determines the capabilities of each drive and configures them to optimize capacity and performance. To take advantage of the high capacities typically available today, hard drives are automatically configured for Logical Block Addressing (LBA) and to PIO Mode 3 or 4, depending on the capability of the drive. You



can override the auto-configuration options by specifying manual configuration in the BIOS Setup program.

To use ATA-66/100 features the following items are required:

- An ATA-66/100 peripheral device
- An ATA-66/100 compatible cable
- ATA-66/100 operating system device drivers

⇒ NOTE

Do not connect an ATA device as a slave on the same IDE cable as an ATAPI master device. For example, do not connect an ATA hard drive as a slave to an ATAPI CD-ROM drive.



DOCUMENTATION CHANGES

The Documentation Changes listed in this section apply to the Intel® Desktop Board D101GGC Technical Product Specification (Order Number D36105). All Documentation Changes will be incorporated into a future version of that specification.

1. *Change to Section 3.9 BIOS Security Features*

Section 3.9 BIOS Security Features will change in its entirety as follows:

3.9 BIOS Security Features

The BIOS includes security features that restrict access to the BIOS Setup program and who can boot the computer. A supervisor password and a user password can be set for the BIOS Setup program and for booting the computer, with the following restrictions:

- The supervisor password gives unrestricted access to view and change all the Setup options in the BIOS Setup program. This is the supervisor mode.
- The user password gives restricted access to view and change Setup options in the BIOS Setup program. This is the user mode.
- If both the supervisor and user passwords are set, users can enter either the supervisor password or the user password to access Setup. Users have access to Setup respective to which password is entered.
- Both the supervisor and user passwords can be set to boot the system or enter the BIOS setup menu.
- For enhanced security, use different passwords for the supervisor and user passwords.
- Valid password characters are A-Z, a-z, 0-9, "+", "~", "=", and ".". Passwords may be up to 8 characters in length.

Table 40 shows the effects of setting the supervisor password and user password. This table is for reference only and is not displayed on the screen.

Table 40. Supervisor and User Password Functions Password Set
Supervisor Mode User Mode

Password Set	Supervisor Mode	User Mode
Neither	Can change all options	Can change all options
Supervisor only	Can change all options	N/A
Supervisor and user set	Can change all options	Can change a limited number of options.