



# **Intel® Desktop Board D845GLAD Product Supplement Specification Update**

Release Date: July 2003

Order Number: A98273-008

The Intel® Desktop Board D845GLAD 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 D845GLAD 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:

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## REVISION HISTORY

Date of Revision	Version	Description
June 2002	-001	This document is the first Product Supplement Specification Update for the Intel® Desktop Board D845GLAD.
August 2002	-002	Updated General Information Section. Removed Printed Board Assembly (PBA) information from the document, as this reference is no longer valid. Added Specification Change 1.
September 2002	-003	Updated General Information section. Updated Legal Disclaimer Section. Added erratum 1.
October 2002	-004	Added Specification Changes 2-6. Added Erratum 2.
February 2003	-005	Updated Chipset Stepping. Moved Specification Changes 1-6 to the <i>Intel Desktop Board 845GL Chipset Family Specification Update</i> (Order Number A98269). Added Errata 3. Added Specification Clarification 1.
March 2003	-006	Added Erratum 4. Added Documentation Changes 3, 4.
April 2003	-007	Added Documentation Change 5.
July 2003	-008	Added Specification Change 9.

## PREFACE

This document is an update to the specifications contained in the *Intel® Desktop Board D845GLAD Product Supplement Document* (Order number A90791). 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 D845GLAD. 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® 845 Chipset: 82845 Memory Controller Hub (MCH) for SDR Specification Update* (Order Number 298589) for specification updates concerning the 82845GL MCH Controller and that may apply to the desktop board D845GLAD. 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® 82801DB I/O Controller Hub 4 (ICH4) Specification Update* (Order Number 290745) for specification updates concerning the 82801DB I/O Controller Hub and that may apply to the desktop board D845GLAD. Unless otherwise noted in this document, it should be assumed that any ICH 4 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 D845GLAD'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.

**Product Supplement Specification Update for the  
Intel® Desktop Board D845GLAD**





## GENERAL INFORMATION

Basic Desktop Board D845GLAD Identification Information

AA Revision	BIOS Revision	Notes
A86713-201	LY84510A.86A.0008.P02	1-5
A86713-202	LY84510A.86A.0009.P03	1-5
A86713-203	LY84510A.86A.0011.P05	1-5
A86713-204	LY84510A.86A.0011.P05	1-5
A86713-205	LY84510A.86A.0022.P08	1-5
A86713-206	LY84510A.86A.0023.P09	1-5
A86713-207	LY84510A.86A.0029.P11	1-5
A86713-208	LY84510A.86A.0029.P11	1-5
A86717-205	LY84510A.86A.0008.P02	1-5
A86717-206	LY84510A.86A.0009.P03	1-5
A86717-207	LY84510A.86A.0011.P05	1-5
A86717-208	LY84510A.86A.0011.P05	1-5
A86717-209	LY84510A.86A.0022.P08	1-5
A86717-210	LY84510A.86A.0023.P09	1-5
A86717-211	LY84510A.86A.0029.P11	1-5
A86717-212	LY84510A.86A.0038.P15	1-5
A84783-203	LY84510A.86A.0008.P02	1-5
A84783-204	LY84510A.86A.0009.P03	1-5
A84783-205	LY84510A.86A.0011.P05	1-5
A84783-206	LY84510A.86A.0011.P05	1-5
A84783-207	LY84510A.86A.0022.P08	1-5
A84783-208	LY84510A.86A.0023.P09	1-5
A84783-209	LY84510A.86A.0029.P11	1-5
A84783-210	LY84510A.86A.0038.P15	1-5
A84787-203	LY84510A.86A.0008.P02	1-5
A84787-204	LY84510A.86A.0009.P03	1-5
A84787-205	LY84510A.86A.0011.P05	1-5
A84787-206	LY84510A.86A.0011.P05	1-5
A84787-207	LY84510A.86A.0022.P08	1-5

**Basic Desktop Board D845GLAD Identification Information (cont)**

<b>AA Revision</b>	<b>BIOS Revision</b>	<b>Notes</b>
A84787-208	LY84510A.86A.0023.P09	1-5
A84787-209	LY84510A.86A.0029.P11	1-5
A84787-210	LY84510A.86A.0038.P15	1-5



NOTES:

1. The AA number is found on a small label on the component side of the board.
2. The 82845GL Chipset kit used on this AA revision consists of three components as follows:

Device	Stepping	S-Spec Numbers
82845GL GMCH	A1 B1	SL66G SL6PT
82801DB ICH	A1 B0	SL66K SL6DM
82802AB FWH	A1	SB48

3. Refer to the *Intel® Pentium® 4 Processor Specification Update* (Order Number 249199) for errata related to the Pentium 4 processor and that may apply to the desktop board D845GLAD.
4. Refer to the *Intel® 845 Chipset: 82845 Memory Controller Hub (MCH) Specification Update* (Order Number 298589) for errata related to the 82850/82850E MCH that may apply to the desktop board D845GLAD.
5. Refer to the *Intel® 82801DB I/O Controller Hub 4 (ICH4) Specification Update* (Order Number 290745) for errata related to the 82801DB I/O Controller Hub that may apply to the desktop board D845GLAD.

## Summary Table of Changes

The following table indicates the Specification Changes, Errata, Specification Clarifications, or Documentation Changes that apply to the desktop board D845GLAD. 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	Specification Changes
1	Doc	Refer to the <i>Intel® Desktop Board 845GL Chipset Family Specification Update</i> (Order number (A98269) for this specification change
2	Doc	Refer to the <i>Intel Desktop Board 845GL Chipset Family Specification Update</i> (Order number (A98269) for this specification change
3	Doc	Refer to the <i>Intel Desktop Board 845GL Chipset Family Specification Update</i> (Order number (A98269) for this specification change
4	Doc	Refer to the <i>Intel Desktop Board 845GL Chipset Family Specification Update</i> (Order number (A98269) for this specification change
5	Doc	Refer to the <i>Intel Desktop Board 845GL Chipset Family Specification Update</i> (Order number (A98269) for this specification change
6	Doc	Refer to the <i>Intel Desktop Board 845GL Chipset Family Specification Update</i> (Order number (A98269) for this specification change
7	Doc	Refer to the <i>Intel Desktop Board 845GL Chipset Family Specification Update</i> (Order number (A98269) for this specification change
8	Doc	Refer to the <i>Intel Desktop Board 845GL Chipset Family Specification Update</i> (Order number (A98269) for this specification change
9	Doc	Refer to the <i>Intel Desktop Board 845GL Chipset Family Specification Update</i> (Order number (A98269) for this specification change
NO.	PLANS	ERRATA
1	Fixed	Refer to the <i>Intel Desktop Board 845GL Chipset Family Specification Update</i> (Order number (A98269) for this erratum.
2	Fixed	Refer to the <i>Intel Desktop Board 845GL Chipset Family Specification Update</i> (Order number (A98269) for this erratum.
3	PlanFix	Refer to the <i>Intel Desktop Board 845GL Chipset Family Specification Update</i> (Order number (A98269) for this erratum.
4	PlanFix	Refer to the <i>Intel Desktop Board 845GL Chipset Family Specification Update</i> (Order number (A98269) for this erratum.



NO.	PLANS	SPECIFICATION CLARIFICATIONS
1	Doc	Refer to the <i>Intel® Desktop Board 845GL Chipset Family Specification Update</i> (Order number (A98269) for this specification change
NO.	PLANS	DOCUMENTATION CHANGES
1	Doc	Refer to the <i>Intel Desktop Board 845GL Chipset Family Specification Update</i> (Order number (A98269) for this specification change
2	Doc	Refer to the <i>Intel Desktop Board 845GL Chipset Family Specification Update</i> (Order number (A98269) for this specification change
3	Doc	Refer to the <i>Intel Desktop Board 845GL Chipset Family Specification Update</i> (Order number (A98269) for this specification change
4	Doc	Refer to the <i>Intel Desktop Board 845GL Chipset Family Specification Update</i> (Order number (A98269) for this specification change
5	Doc	Refer to the <i>Intel Desktop Board 845GL Chipset Family Specification Update</i> (Order number (A98269) for this specification change