



# **WL810E Motherboard Specification Update**

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Order Number: A23576-002

The WL810E motherboard 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 WL810E motherboard 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  |
|------------------|---------|--|
| April 2000       | -001    | This document is the first Specification Update for the Intel® WL810E motherboard. |
| May 2001         | -002    | Added Erratum 1. Removed BIOS/Errata cross-reference table.                        |

## PREFACE

This document is an update to the specifications contained in the WL810E Motherboard Technical Product Specification (Order number A12504). 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 *Pentium® III Processor Specification Update* (Order number 244453) for specification updates concerning the Pentium III processor. Items contained in the *Pentium III Processor Specification Update* that either do not apply to the WL810E motherboard or have been worked around are noted in this document. Otherwise, it should be assumed that any processor errata for a given stepping are applicable to the PBA revision(s) associated with that stepping.

Refer to the *Intel® Celeron™ Processor Specification Update* (Order number 243748) for specification updates concerning the Intel Celeron processor. Items contained in the *Intel Celeron Processor Specification Update* that either do not apply to the WL810E motherboard or have been worked around are noted in this document. Otherwise, it should be assumed that any processor errata for a given stepping are applicable to the PBA revision(s) associated with that stepping.

Refer to the *Intel® 82810 Chipset: 82810/82810-DC100 Graphics and Memory Controller Hub (GMCH) Specification Update* (Order Number 290659) for specification updates concerning the 82810 GMCH Controller. Items contained in the *82810 GMCH Specification Update* that either do not apply to the WL810E motherboard or have been worked around are noted in this document. Otherwise, it should be assumed that any GMCH errata for a given stepping are applicable to the PBA revision(s) associated with that stepping.

Refer to the *Intel® 82801 I/O Controller Hub (ICH) Specification Update* (Order Number 290677) for specification updates concerning the 82801 I/O Controller Hub. Items contained in the *Intel 82801 ICH) Specification Update* that either do not apply to the WL810E motherboard or have been worked around are noted in this document. Otherwise, it should be assumed that any ICH errata for a given stepping are applicable to the Printed Board Assembly (PBA) 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 WL810E motherboard's behavior to deviate from published specifications. Hardware and software designed to be used with any given Printed Board Assembly (PBA) and BIOS revision level must assume that all errata documented for that PBA and BIOS revision level are present on all motherboards.

**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  
WL810E Motherboards**





## GENERAL INFORMATION

### Basic WL810E Motherboard Identification Information

| AA Revision | PBA Revision | BIOS Revision         | Notes |
|-------------|--------------|-----------------------|-------|
| A09946-203  | A09947-203   | WL81020A.86A.0005.P03 | 1-6   |
| A09946-204  | A09947-204   | WL81020A.86A.0005.P03 | 1-6   |
| A09946-205  | A09947-205   | WL81020A.86A.0005.P03 | 1-6   |
| A09946-206  | A09947-206   | WL81020A.86A.0005.P03 | 1-6   |

NOTES:

1. The PBA number or AA number is found on a small label on the component side of the board.
2. The 82810 AGPset kit used on this PBA revision consists of two components as follows:

| Device      | Stepping | S-Spec Numbers |
|-------------|----------|----------------|
| 82810E GMCH | A2       | SL3MD          |
| 82801AA ICH | B1       | SL3MA          |
| 82802AB FWH | A1       | SB48           |

3. The following errata are contained in the *Pentium® III Processor Specification Update* (Order Number 244453) for the Pentium III processor and either do not apply to the WL810E motherboard or have been worked-around in this PBA and/or BIOS revision: 1. All other errata associated with the processor apply to this PBA revision.
4. The following errata are contained in the *Intel® Celeron™ Processor Specification Update* (Order Number 243748) for the Celeron processor and either do not apply to the WL810E motherboard or have been worked-around in this PBA and/or BIOS revision: All other errata associated with the processor apply to this PBA revision.
5. The following items are contained in the *82810/82810-DC100 Graphics and Memory Controller Hub (GMCH) Specification Update* (Order Number 290677) and either do not apply to the WL810E motherboard or have been worked around in this PBA and/or BIOS revision: All other errata associated with the GMCH apply to this PBA revision.
6. The following items are contained in the *Intel® 82801 I/O Controller Hub Specification Update* (Order Number TBD) and either do not apply to the WL810E motherboard or have been worked around in this PBA and/or BIOS revision: None. All other errata associated with the ICH apply to this PBA revision.



### Summary Table of Changes

The following table indicates the Specification Changes, Errata, Specification Clarifications, or Documentation Changes which apply to the WL810E motherboard. Intel intends to fix some of the errata in a future revision of the motherboard, 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.
- Fix: This erratum is intended to be fixed in a future revision of the motherboard 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   | Fixed | Intel® Pentium® III processor Erratum E76 |

## ERRATA

### 1. *Intel® Pentium® III Processor Erratum E76*

**PROBLEM:** For a complete description of the Pentium® III processor erratum E76, see the Pentium III Specification Update, order number 244453 found at <http://developer.intel.com/design/PentiumIII/specupdt/>.

**IMPLICATION:** For a complete description of the Pentium III processor erratum E76, see the Pentium III Specification Update, order number 244453 found at <http://developer.intel.com/design/PentiumIII/specupdt/>.

**WORKAROUND:** Update the WL810E desktop board with BIOS revision WL81020A.86A.0013.P06.

**STATUS:** This erratum was addressed in BIOS revision WL81020A.86A.0013.P06.