



## *DIGITAL Server 7300 Series Product Change Information*

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**Initial Release:**            **Jan-98**  
**Revised:**                    **May-98**

This document details the following product change information for the DIGITAL Server 7300 series:

- Introduction
- Main Logic Board Change Summary
- Processor Change Summary
- BIOS Release Summary
- Product Change Release Notes
- AlphaBIOS Change Release Notes
- Customer Impact Ratings
- Future Releases

### **Introduction**

This document provides you with a synopsis of product changes. All product changes are evaluated for their potential impact on daily customer operations. This evaluation includes, but is not limited to, such items as safety, emission requirements, functionality, compatibility, reliability, and manufacturing process. On occasion, emergency changes may be implemented before they are reflected in this document.

### **Main Logic Board Change Summary**

The Main Logic Board Change Summary provides an overview of the "Engineering Change Orders," or ECOs, that have been released for the main logic board. This summary supplies the part number, date of release, customer impact, and brief description of the change.

## Processor Change Summary

The Processor Change Summary provides an overview of the ECOs that have been released for the processor. This summary supplies the part number, date of release, customer impact, and brief description of the change.

## AlphaBIOS Release Summary

The AlphaBIOS Release Summary gives an overview of the AlphaBIOS release history. This summary provides the AlphaBIOS release number, date of release, customer impact, and brief description. The brief description explains whether the release is a maintenance release or a release to support new features. A maintenance release implies that a series of changes or problem fixes were put in place.

## Product Change Release Notes

The Product Change Release Notes cover master logic board changes, processor changes, and AlphaBIOS releases. They provide more information about the changes listed in the summaries. This information is meant to aid you in understanding in more detail what has changed and whether you need to take any action. Each change includes a description, a solution (if applicable), a recommendation for action, and a listing of any compatibility issues. Any new features or functionality are documented under a New Features section.

## Customer Impact Rating

For each product change a customer impact rating is given. The customer impact rating can be High, Medium, Low, or None, as follows:

- HIGH** A "HIGH" rating indicates that this change has some or significant customer impact. This change may affect safety, functionality, compatibility, or reliability.
- MEDIUM** A "MEDIUM" rating indicates that this change may impact some customers or customers using certain configurations. This change will have a minor effect on reliability, functionality, or compatibility.
- LOW** A "LOW" rating indicates that this change will have a minor impact on customers. This change is typically a product improvement and/or enhancement.
- NONE** A "NONE" rating indicates that this change has no customer impact. This type of change can range from a part substitution, documentation change, or yield enhancement.

## Future Releases

This document only covers processor (CPU), main logic board (MLB) and AlphaBIOS changes. Future releases of this document will include ECO information for other major components.

## Systems Supported

The information outlined in this document covers the following system variants:

<b>System Model Variant</b>	<b>Description</b>
7300 6400A	400 MHz Alpha
7300 6400AR	400 MHz Alpha - Rack Mount
7305 6533A	533 MHz Alpha
7305 6533AR	533 MHz Alpha - Rack Mount

## **Main Logic Board Change Summary**

Part Number	Used On:	Old Rev	New Rev	ECO Number	Date	Customer Impact	Change Description
54-23803-01	All models DS 7300	None	B08	None	Jan-98	None	None - new release
54-23803-01	All models DS 7300	B08	B10	5423803-TWO004	Jan-98	None	Documentation change

## **Processor Change Summary**

Part Number	Used On:	Old Rev	New Rev	ECO Number	Date	Customer Impact	Change Description
B3105-AA	7300 6400A 7300 6400AR	None	A02	None	Jan-98	None	None - new release
B3105-CA	7300 6533A 7300 6533AR	None	A03	None	Jan-98	None	None - new release
B3105-AA	7300 6400A 7300 6400AR	A02	A03	B3105-TWO001	Feb-98	None	Documentation change
B3105-CA	7300 6533A 7300 6533AR	A03	A04	B3105-TWO001	Feb-98	None	Documentation change

## **AlphaBIOS Release Summary**

AlphaBIOS Revision	MLB Revision	ECO Number	Date	Customer Impact	Change Description
<b>5.64</b>	B08	None	Jan-98	None	None - New release
<b>5.64</b>	H03	7500247-TWO005	Feb-98	None	Revision of AlphaBIOS to add new files and include support of DIGITAL Server 7300 Series processors.

## Product Change Release Notes

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<b>ECO Number:</b>	5423803-TWO004
<b>Component:</b>	DIGITAL Server 7300 Main Logic Board
<b>Part:</b>	54-23803-01
<b>Revision:</b>	B08 to B10
<b>Severity:</b>	None
<b>ECO Issue Date:</b>	28-Jan-1998
<b>Notification Type:</b>	Customer Action Not Required.
<b>Change Description:</b>	Manufacturing documentation change to reflect part revision.

### Problem Description

Soldering problems on load resistors R3/R8/R11 were causing difficulty. The load resistors were breaking off when the bracket was installed.

### New Features

None.

### Solution

The bracket and the resistors were removed from the KPL. The MLB was modified. As a consequence, the MLB revision level moved from B08 to B10.

### Compatibility

This change has no compatibility issues.

### Customer Impact/Recommendations

None.

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<b>ECO Number:</b>	B3105-TWO001
<b>Component:</b>	DIGITAL Server 7300 400MHz Processor
<b>Part:</b>	B3105-AA
<b>Revision:</b>	A02 to A03
<b>Severity:</b>	None
<b>ECO Issue Date:</b>	23-Jan-1998
<b>Notification Type:</b>	Customer Action Not Required.
<b>Change Description:</b>	Manufacturing documentation change to accommodate release new etch of part 50-25178-01 for B3107-AA/CA.

## Problem Description

50-25178-01 is common to B3005-xx, B3007-xx, and B3105-xx processors. A new etch, rev C01, was released for B3005-xx and B3007-xx. B3105-xx did not support rev C01. Therefore, manufacturing would have to stock two revisions of this etch.

## Solution

50-25178-01, rev C01, was released for B3105-AA/CA. Manufacturing documentation edited to update B3105-AA from rev A02 to A03.

## New Features

No new features were added in this release.

## Compatibility

This change has no compatibility issues.

## Customer Impact/Recommendations

None.

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**ECO Number:** B3105-TWO001  
**Component:** DIGITAL Server 7300 500MHz Processor  
**Part:** B3105-CA  
**Revision:** A03 to A04  
**Severity:** None  
**ECO Issue Date:** 23-Jan-1998  
**Notification Type:** Customer Action Not Required  
**Change Description:** Manufacturing documentation change to accommodate release new etch of part 50-25178-01 for B3105-AA/CA.

## Problem Description

50-25178-01 is common to B3005-xx, B3007-xx, and B3105-xx processors. A new etch, rev C01, was released for B3005-xx and B3007-xx. B3105-xx did not support rev C01. Therefore, manufacturing would have to stock two revisions of this etch.

## Solution

50-25178-01, rev C01, was released for B3105-AA/CA. Manufacturing documentation edited to update B3105-AA from rev A01 to A02.

## New Features

No new features were added in this release.

## Compatibility

This change has no compatibility issues.

## Customer Impact/Recommendations

None.

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<b>ECO Number:</b>	7500247-TWO005
<b>Component:</b>	AlphaBIOS
<b>MLB Revision:</b>	H03
<b>Severity:</b>	None
<b>ECO Issue Date:</b>	20-Feb-1998
<b>Notification Type:</b>	Customer action not required.
<b>Change Description:</b>	New revision to add new versions of firmware files and support for DIGITAL Server 7300 series.

## Problem Description

New files had to be incorporated into firmware.

## Solution

Update firmware with the files.

## New Features

Enhancements include:

- Support for DIGITAL Server 7300 series systems was added.
- Updated version of QLOGIC firmware, version V5.53 to include Ultra SCSI support was added. (Note that Ultra SCSI support is restricted to configurations with direct attach only.)
- Device support for the DE500-FA, 100MBPS multifiber EtherWorks adapter was added.
- KZPSA adapter driver code was changed to represent the KZPSA controller with the device mnemonic "pks" rather than "kzpsa." This means that:
  - Use the command UPD>UPDATE PKS\* to make LFU updates under the SRM console (V5.1 or later) rather than the UPD>UPDATE KZPSA\* command.
  - Use the command P00>SHOW DEVICE PKS\* to show devices attached to the KZPSA adapters.
- The Racore Token Ring device name representation was changed to PBXNP-AC to be consistent with other platforms.
- Latent support of Loadable Firmware Update (LFU) for the CCMAB-AA Memory Channel 2 (MC2) adapter was included.



- The following changes were made in AlphaBIOS V5.64:
  - Support was added to configure AlphaBIOS to perform a system reset upon NT shutdown and restart.
  - The MEMTEST interface has been changed in advanced CMOS settings. The user may now select Disable, Partial, or Full memory test type using the Power-Up Memory Test Advanced CMOS setting. The Power-UP Memory Test Length setting has been removed as it is no longer necessary.
  - Support for the DIGITAL Server 7300 series has been added.

## **Compatibility**

This change has no compatibility issues.

## **Customer Impact/Recommendations**

Support for DIGITAL Server 7300 series added.

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