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Prioris MX 6000 Servers
Product Change Information

This document details the following for the Prioris MX 6000 Servers product change information:

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- Product Change Summary
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Introduction

This document is meant to provide customers with a synopsis of product changes. The change information enables customers to evaluate the impact any change has on their environment. All proposed product changes are appraised for their potential impact to daily customer operations. This evaluation includes, but is not limited to such items as safety, emission requirements, functionality, compatibility, reliability, and manufacturing process. Recommendations are then made to customers on whether any action needs to be taken. On occasion, emergency changes may be implemented before they are reflected in this document.

Product Change Summary

The Product Change Summary provides a overview of the "Engineering Change Orders" or ECOs that have been released This matrix provided the part number, part description, date of release, customer impact, and brief description of the change.

At this time, this document only covers Main Logic Board (MLB) and system BIOS changes. Future releases of this document will include ECO information for other major components.

BIOS Release Summary

The BIOS Release Summary is a subset of information from the Product Change Summary. It is meant to provide an overview of just the BIOS Release history This matrix provides the BIOS release number, date of release, customer impact, and brief description. The brief description either denotes a specific change, maintenance release, and/or new feature support. 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 provide information on each specific change This information is meant to aid the customer in understanding in more detail what has changed and whether they need to take any action The change descriptions include a change, solution if applicable, and a customer recommendation.

Customer Impact Rating

For each product change a customer impact rating is given The customer impact rating can be one of four ratings: High, Medium, Low, or None.

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

Future releases of this document will incorporate information for other major system components. BIOS changes will be separated from the Main Logic Board (MLB) changes Historically, BIOS releases were tied to MLB revision therefore a change in BIOS version would change the MLB revision In the future, a BIOS changes will be released independently and not affect the MLB revision.

Systems Supported

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

System Variant	Description
6200	Pentium 200 MHZ
6200 MP	Pentium 200 MHZ Multiple Processor

Product Change Summary

Part Number	Part	Old Rev	New Rev	ECO Number	Date	Customer Impact	Change Description
54-24580-01	MLB	E03	E03	5424580-TA010	May 97	High	BIOS release V1.03
54-24580-01	MLB	E03	E03	5424580-TA011	June 97	High	BIOS release V1.04
54-24580-01	MLB	E03	E03	5424580-TA012	June 97	High	BIOS release V1.05
54-24580-01	MLB	E03	E01	5424580-TA013	Aug 97	High	Add RC circuit on MLB (Rev D01 etch)
54-24580-01	MLB	E03	F03	5424580-TA013	Aug 97	High	Add RC circuit on MLB (Rev E03 etch)
54-25304-01	CPU	A01	B01	5425304-TA001	Aug 97	High	Component change
54-25304-01	CPU	B01	B01	5425304-TA002	Aug 97	None	Component numbering
54-24580-01	MLB	F03	H03	5424580-TA014	Aug 97	None	Component EOL
54-25302-02	TRM		A01	5425302-TA001	Aug 97	None	Terminator card
54-24580-01	MLB	H03	H03	5424580-TA015	Aug 97	High	BIOS release V2.00
54-24580-01	MLB	H03	J03	5424580-TA016	Sept 97	High	Component change
54-24580-01	MLB	J03	J04	5424580-TA017	Sept 97	High	Component classification
54-24580-01	MLB	J04	J05	5424580-TA018	Sept 97	High	Component phase in
PCB40-A9	Bld Block	A01	B01	PCB40-TA001	Sept 97	High	Component replacement
PCB44-A9	Bld Block	A01	B01	PCB44-TA001	Sept 97	High	Component replacement
54-25304-01	CPU	B01	B01	5425304-TA001	Sept 97	High	Component change
54-25304-01	CPU	B01	B01	5425304-TA002	Sept 97	None	CPU component designation
54-25304-01	CPU	B01	B01	5425304-TA003	Sept 97	None	Document correction
54-25302-02	Term. Card		A01	5425302-TA001	Sept 97	None	New variation

BIOS Release Summary

BIOS Revision	MLB Revision	ECO Number	Date	Customer Impact	Change Description
V1.03	E03	5424580-TA010	May 97	High	Maintenance release
V1.04	E03	5424580-TA011	June 97	High	Product fix
V1.05	E03	5424580-TA012	June 97	High	Product fix
V2.00	H03	5424580-TA015	Aug 97	High	Product fix

ECO Number: 5424580-TA010

Part	Motherboard
Revision	E03
Component	BIOS
Severity	High
ECO Issue Date	May 97
Type of Notification	Action required
Change Description	BIOS upgrade to V1.03

Description

1. **Severity:** High
   Description: When Pentium Pro CPU with L2 more than 256K is detected, the message "Cache SRAM Failed" is displayed. The message "Cache SRAM unsupported" should display.
   Symptom: None
   Customer Impact: None

Solution

System BIOS version of 23-318Z2-00 is changed from V1.02 to V1.03.

Compatibility

N/A

Customer Impact/Recommendations:

None

ECO Number: 5424568-TA011

Part	Motherboard
Revision	E03
Component	BIOS
Severity	High
ECO Issue Date	June 97
Type of Notification	Action may be required
Change Description	BIOS Release V1.04

Description

Severity: High
Description: Monitor flickering problem.
Symptom: Monitors flicker when connected to onboard Trio32 VGA chip.
Customer Impact: Customers' monitors will not function normally.

Solution

Upgrade System BIOS to Version V1.04

Compatibility

This release is backwards compatible on all system variants.

Customer Impact/Recommendations:

It is STRONGLY recommended to upgrade to this version of BIOS if the onboard VGA chip is S3 Trio32.

ECO Number: 5424568-TA012

Part	Motherboard
Revision	E03
Component	BIOS
Severity	High
ECO Issue Date	June 97
Type of Notification	Action may be required
Change Description	BIOS Release V1.05

Description

Severity: High
Description: Specification change - Pentium Pro processor with L2 cache size more than 256KB is to be supported.
Symptom: System is halted if Pentium Pro processor with L2 cache size more than 256KB is installed
Customer Impact: System is halted.

Solution

Upgrade your Main Logic Board (MLB) to BIOS V1.05.

Compatibility

This release is backwards compatible on all system variants.

Customer Impact/Recommendations:

It is strongly recommended to upgrade to this version of BIOS if the user's system is equipped with the Pentium Pro processor with L2 cache over 256KB. BIOS V1.05 requires SCU V1.01 or greater.

ECO Number: 5424568-TA013

Part	Motherboard
Revision	E01 and F03
Component	BIOS
Severity	High
ECO Issue Date	August 97
Type of Notification	Action not required
Change Description	Add RC circuit on MLB

Description

Severity: High
Description: Does not self power after a power failure.
Symptom: Does not self power after a power failure, it requires that someone physically recycle the power switch.
Customer Impact: No customer impact since this change was implemented during the manufacturing process.

Solution

Add RC circuit to your Main Logic Board (MLB).

Compatibility

N/A

Customer Impact/Recommendations:

No customer impact since this change was implemented during the manufacturing process.

ECO Number: 5424580-TA014

Part	MLB
Revision	H03
Component	Graphics Accelerator
Severity	None
ECO Issue Date	Aug 97
Type of Notification	Action not required
Change Description	End of life for Graphics Accelerator

Description

Severity: N/A
Description: Graphics Accelerator (21-43696-01) is going to end of life.
Symptom: N/A

Solution

21-40815-06 (TRIO64V+) will replace 21-43696-01.

Compatibility

N/A

Customer Impact/Recommendations:

No customer impact since this change is implemented in the manufacturing process.

ECO Number: 5425304-TA001

Part	CPU
Revision	B01
Component	CPU
Severity	High
ECO Issue Date	Aug 97
Type of Notification	Action not required
Change Description	Change resistor values

Description

Severity: High
Description: System does not boot due to VRM failed.
Symptom: N/A

Customer Impact: None

Solution

Replace 330 ohm resistor (13-40998-37) R18, with 4.7K ohm (13-40998-65).

Compatibility

N/A

Customer Impact/Recommendations:

None

ECO Number: 5425304-TA002

Part	CPU
Revision	B01
Component	CPU
Severity	High
ECO Issue Date	Aug 97
Type of Notification	Action not required
Change Description	Correct component reference designator.

Description

Severity: None
Description: Location R18 and C28 are printed with wrong reference designator. R18 is printed with C28, and C28 is printed with R18.
Symptom: N/A

Customer Impact: None

Solution

Update the silkscreen to call out right reference designator for R18 and C28.

Compatibility

N/A

Customer Impact/Recommendations:

None

ECO Number: 5425302-TA001

Part	TRM (terminator card)
Revision	A01
Component	Terminator card
Severity	None
ECO Issue Date	Aug 97
Type of Notification	Action not required
Change Description	New terminator card to allow for assembly on Firebird

Description

Severity: N/A
Description: It is impossible to assemble the terminator card with bracket on Firebird.
Symptom: N/A

Solution

Add new variation 54-25302-02 for the terminator card without bracket.

Compatibility

N/A

Customer Impact/Recommendations:

No customer impact since this change is implemented in the manufacturing process.

ECO Number: 5424580-TA015

Part	MLB
Revision	H03
Component	BIOS
Severity	High
ECO Issue Date	Aug 97
Type of Notification	Action may be required
Change Description	BIOS release V2.00

Description

Severity: High
Problem: Firebird CPU module is not supported.
Symptom: Pentium II processor and DIMM are not configured correctly when Firebird CPU module is installed.

Solution

Upgrade your Main Logic Board (MLB) to BIOS V2.00

Compatibility

This release is backward compatible on all system variants.

Customer Impact/Recommendations:

It is strongly recommended to upgrade to this version of BIOS if User's system is to be equiped with Firebird CPU module.

ECO Number: 5424580-TA016

Part	MLB
Revision	J03
Component	MLB
Severity	High
ECO Issue Date	Sept 97
Type of Notification	Action not required
Change Description	Component change

Description

Severity: High

Problem: The VGA power source RC circuit contains a resistor that is too large and causes the RAM DAC test to fail when the phase is in Trio64V+. Trio64V requires more current than Trio32. The resistor value for Trio64V must be smaller than that for Trio32 which will reduce the drop voltage.

Solution

At location R394 delete the 10 ohm resistor and add a 5.1 ohm resistor

Customer Impact/Recommendations:

No customer impact since the change was implemented during the manufacturing process.

ECO Number: 5424580-TA017

Part	MLB
Revision	J04
Component	MLB
Severity	High
ECO Issue Date	Sept 97
Type of Notification	Action not required
Change Description	Component classification

Description

Severity: High
Problem: 93C46 (Serial EEPROM 1024 BITS-IN 8 pin) has wrong classification (21 class)

Solution

Correct the 93C46 classification to 23 class.

Customer Impact/Recommendations:

No customer impact since the change was implemented during the manufacturing process.

ECO Number: 5424580-TA018

Part	MLB
Revision	J05
Component	MLB
Severity	High
ECO Issue Date	Sept 97
Type of Notification	Action not required
Change Description	Component phase in

Description

Severity: High
Change description: Phase in new SCSI terminator (UCC5614DP) to provide enhanced reliability.

Solution

1. Delete 19-39217-61 (UC5603DP) and add 21-44010-61 (UC5C5614DP) in the KPL.

2. Change note in KPL:

    *   WAS - 19-39217-61 (Unitrode UC5603DP) can be substituted by 19-43778-02 (Unitrode UC5612DP) or 21-44010-01 (Unitrode UCC5614DP).

    *   IS - 21-44010-01 (Unitrode UC5614DP) can be substituted by 19-43778-02 (Unitrode UC5612DP) or 19-39217-61 (Unitrode UCC5603DP).

Customer Impact/Recommendations:

No customer impact since the change was implemented during the manufacturing process.

ECO Number: PCB40-TA001

Part	Building Block
Revision	B
Component	SCSI Terminator
Severity	High
ECO Issue Date	Sept 97
Type of Notification	Action not required
Change Description	Component replacement

Description

Severity: High
Change description: The SCSI terminator (12-41768-02) onSkagit causes amber LED light on
SBB.

Solution

1. Delete the SCSI terminator (12-41768-02).
2. Add the SCSI terminator (12-41768-03).

Customer Impact/Recommendations:

A Field Blitz will be issued to alert MCA of the symptom and resolution of this problem.

ECO Number: PCB44-TA001

Part	Building Block
Revision	B
Component	SCSI Terminator
Severity	High
ECO Issue Date	Sept 97
Type of Notification	Action not required
Change Description	Component replacement

Description

Severity: High
Change description: The SCSI terminator (12-41768-02) on Firebird causes amber LED light on SBB.

Solution

1. Delete the SCSI terminator (12-41768-02).
2. Add the SCSI terminator (12-41768-03).

Customer Impact/Recommendations:

A Field Blitz will be issued to alert MCA of the symptom and resolution of this problem.

ECO Number: 5425304-TA001

Part	CPU
Revision	B01
Component	CPU
Severity	High
ECO Issue Date	Sept 97
Type of Notification	Action not required
Change Description	Component change

Description

Severity: High
Problem: System can not boot due to VRM failure.

Solution

Changed R18 from 330 ohm (13-40998-37) to 4.7K ohm (13-40998-65).

Customer Impact/Recommendations:

No customer impact since the change was implemented during the manufacturing process.

ECO Number: 5425304-TA002

Part	CPU
Revision	B01
Component	CPU
Severity	None
ECO Issue Date	Sept 97
Type of Notification	Action not required
Change Description	Component designation incorrect

Description

Severity: N/A
Problem: Location R18 and C28 are printed with wrong reference designator. Location R18 is printed with C28 and location C28 is printed with R18.

Solution

Update the silkscreen to call out right reference designator for R18 and C28.

Customer Impact/Recommendations:

None

ECO Number: 5425304-TA003

Part	CPU
Revision	B01
Component	CPU
Severity	None
ECO Issue Date	Sept 97
Type of Notification	Action not required
Change Description	Document update

Description

Severity: N/A
Problem: On the UA drawing, it shows incorrect default frequency multiple (3.5X) on SW1 default setting. The correct default Frequency multiple should be 4X not 3.5X.

Solution

Update the UA drawing to correct the frequency multiple of SW1 default setting to 4X.

Customer Impact/Recommendations:

None

ECO Number: 5425302-TA001

Part	Terminator card
Revision	A01
Component	Terminator
Severity	None
ECO Issue Date	Sept 97
Type of Notification	Action not required
Change Description	New component variation

Description

Severity: None
Problem: It is impossible to assemble the Terminator card with the bracket on Pocono or Firebird products.

Solution

Add a new variation 54-25302-02 for the terminator card without the bracket.

Customer Impact/Recommendations:

No customer impact since the change was implemented during the manufacturing process.

Release V1.03

1. **Severity:** High
    Description: When Pentium Pro CPU with L2 more than 256K is detected, the message "Cache SRAM Failed" is displayed. The message "Cache SRAM unsupported" should display.
    Symptom: None
    Customer Impact: None

Solution

System BIOS version of 23-318Z2-00 is changed from V1.02 to V1.03.

Compatibility

N/A

Customer Impact/Recommendations:

None

Release V1.04

Release Date: June 1997

Severity: High
Description: Monitors of certain kinds have flickering problems.
Symptom: Monitors of certain kinds flicker when connected to onboard Trio32 VGA chip.
Customer Impact: Customers' monitors will not function normally. After phasing in the new System BIOS, DDC function of monitor may not function.

Solution

Upgrade System BIOS to Version V1.04

Compatibility

This release is backwards compatible on all system variants.

Customer Impact/Recommendations:

It is STRONGLY recommended to upgrade to this version of BIOS if the onboard VGA chip is S3 Trio32.

Release V1.05

Description

Severity: High
Description: Specification change - Pentium Pro processor with L2 cache size more than 256KB is to be supported.
Symptom: System is halted if Pentium Pro processor with L2 cache size more than 256KB is installed
Customer Impact: System is halted.

Solution

Upgrade your Main Logic Board (MLB) to BIOS V1.05.

Compatibility

This release is backwards compatible on all system variants.

Customer Impact/Recommendations:

It is strongly recommended to upgrade to this version of BIOS if the user's system is equipped with the Pentium Pro processor with L2 cache over 256KB. BIOS V1.05 requires SCU V1.01 or greater.

Release V2.00

Part	MLB
Revision	H03
Component	BIOS
Severity	High
ECO Issue Date	Aug 97
Type of Notification	Action may be required
Change Description	BIOS release V2.00

Description

Severity: High
Problem: Firebird CPU module is not supported.
Symptom: Pentium II processor and DIMM are not configured correctly when Firebird CPU module is installed.

Solution

Upgrade your Main Logic Board (MLB) to BIOS V2.00

Compatibility

This release is backward compatible on all system variants.

Customer Impact/Recommendations:

It is strongly recommended to upgrade to this version of BIOS if User's system is to be equiped with Firebird CPU module.

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