PCN# 20230420000

Intel Enpirion Power Supply Obsolescence and Component Availability on:

MitySOM-A10S SOM Family

Date: April 20, 2023

To: Purchasing Agents

Dear Customer,

This is an initial announcement of a change to a product that is currently offered by Critical Link. The details of this change are on the following pages.

For questions regarding this notice, contact info@critiallink.com.

Sincerely,

Critical Link, LLC

Phone: (315) 425-4045

Fax: (315) 425-4048

PCN Number: 20230420000

PCN Date: April 20, 2023

Title: Intel Enpirion Power Supply Obsolescence and Component Availability

Contact: info@criticallink.com

Phone: (315) 425-4045

Ship Date: April, 2023

Overview

Changes made to the MitySOM-A10S due to obsolescence and availability issues on some key components.

1 Intel Enpirion Power Supplies

1.1 Description of Change

Please refer to Appendix A

1.2 Reason for Change

Please refer to Appendix A

1.3 Anticipated Impact on Form, Fit, Function (positive / negative)

For all A10S-P9 series of SOMs there is no impact to function as all updated supplies meet the same performance of the previous SOM. For all A10S-P8 series of SOMs there is a functional impact, the 0.9V core supply has been reduced from 40A capability to 20A.

For both A10S-P9 and A10S-P8 series there is impact to form and fit. The tallest component on the A10S SOM is now 7.25mm versus 6.60mm previously. For A10-P9 series this component is present on both the top and bottom sides. For A10-P8 series this component is presently only on the top side.

A STEP model of the A10S SOM can be provided upon request.

1.4 Anticipated Impact on Quality or Reliability (positive / negative)

None.

2 TI 12V to 5V Power Supply

2.1 Description of Change

Please refer to Appendix A

2.2 Reason for Change

Please refer to Appendix A

2.3 Anticipated Impact on Form, Fit, Function (positive / negative)

There is no impact to Form, Fit and Function.

2.4 Anticipated Impact on Quality or Reliability (positive / negative)

None.

3 SkyWorks Programmable PLL

3.1 Description of Change

Please refer to Appendix B

3.2 Reason for Change

Please refer to Appendix B

3.3 Anticipated Impact on Form, Fit, Function (positive / negative)

There is a functional change to the A10S SOM. In order to ensure continuity of supply for all customers the clock routing for the DDR interfaces and the transceivers has change. Please see appendix B for further details.

Form and fit have not been affected.

3.4 Anticipated Impact on Quality or Reliability (positive / negative)

None.

4 Products Affected

Details regarding the full revision history can be located in the MitySOM-A10S SOM Revision History section on the Critical Link support site.
https://support.criticallink.com/redmine/projects/mitysom_a10s/wiki/Errata_and_Module_Product_Change_Notifications

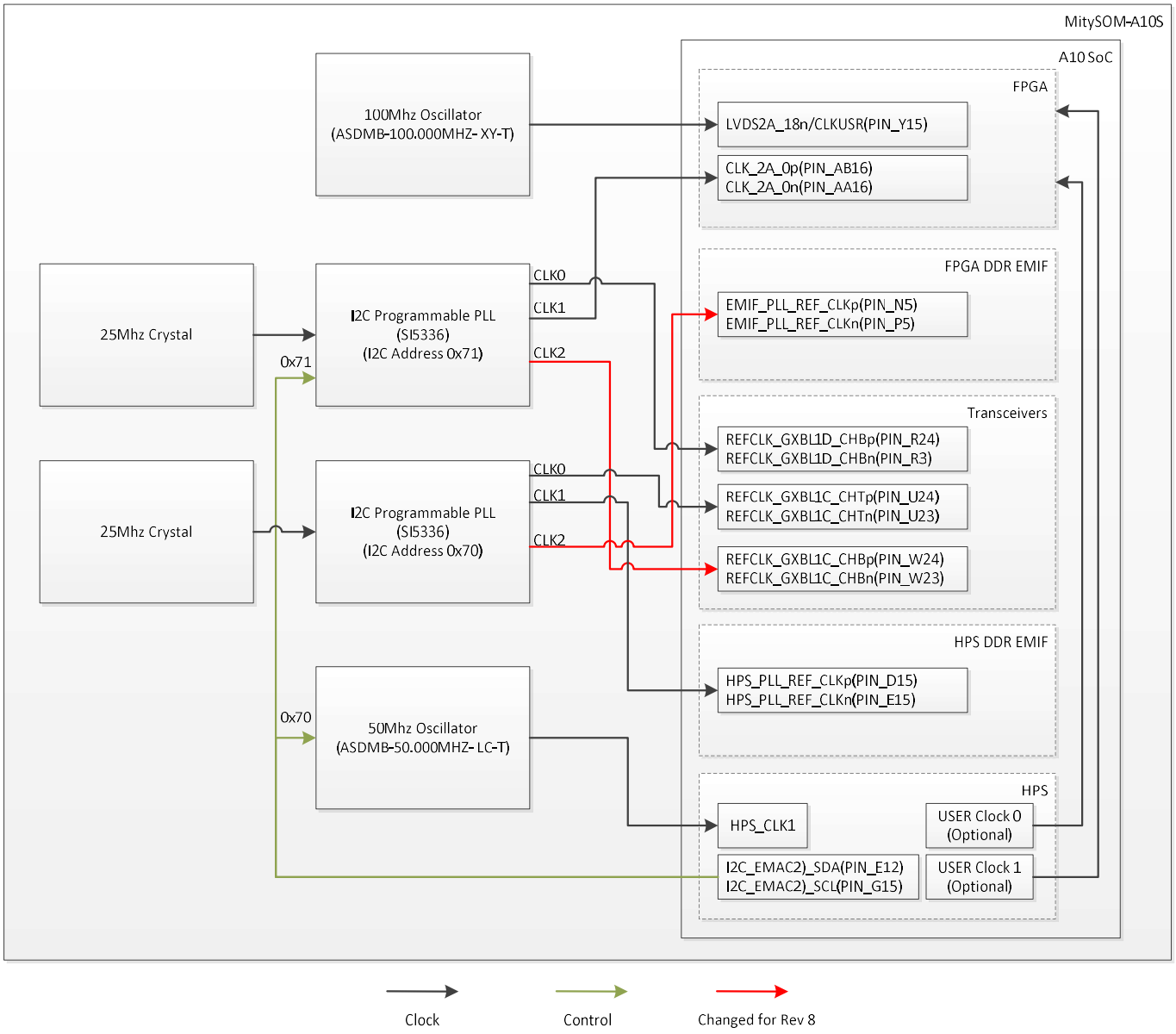
Table 1: Products Affected

Model Number	Starting PCA	Replacement PCA
A10S-P9-A5E-RC-SB	80-001146RC-7	80-001564RC-8
A10S-P9-A5E-RI-SB	80-001146RI-7	80-001564RI-8
A10S-P8-A5E-RC-SB	80-001124RC-7	80-001124RC-8
A10S-P8-A5E-RI-SB	80-001124RI-7	80-001124RI-8
A10S-P8-X5E-RC-SA	80-001174RC-7	80-001174RC-8
A10S-P8-X5E-RI-SA	80-001174RI-7	80-001174RI-8
A10S-P9-X5E-RC-SA	80-001175RC-7	80-001175RC-8
A10S-P9-X5E-RI-SA	80-001175RI-7	80-001175RI-8

5 Appendix A

MPN	Qty per SOM	Original MFG	Replacement MPN	Replacement Mfg	Qty per SOM	Target Voltage(V)	Reason for Change
EM2140P01QI	1	Enpirion/Intel	LTC7150SIY#PBF	Analog Devices	1	0.9V	EOL
ES1030QI	1	Enpirion/Intel	ADM1186-1ARQZ	Analog Devices	1	N/A	EOL
EN6347QI	1	Enpirion/Intel	LTC3310SEV#PBF	Analog Devices	1	0.95V	EOL
EN6362QI	2	Enpirion/Intel	LTC3614EUDD#PBF	Analog Devices	2	1.8V and 1.2V	EOL
EV1320Q	1	Enpirion/Intel	MAX8794ETB+T	Microchip Technology	1	0.6V	EOL
LMZ31707RVQ/LMZ31710RVQ	1	Texas Instruments	MIC45208-1YMP-TR	Microchip Technology	1	5V	Availability

6 Appendix B



7 Document Revision History

Date	Version	Change Description
20-Apr-2023	1.0	Initial Version