PCN# 20230101000

Substitute Power Supplies:

MitySOM-335x Modules

Date: January 1, 2023

To: Purchasing Agents & Design Engineers

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

(CT016, Revision 4)
www.criticallink.com

PCN Number: 20230101000

PCN Date: January 01, 2023

Title: Substitute Power Supplies for MitySOM-335x

Contact: info@criticallink.com

Phone: (315) 425-4045

Planned Date of Change: January 2023

Overview

Changes to MitySOM-335x System on Modules are identified in the following sections.

1   Substitute Power Supplies

1.1 Description of Change

The TPS62290 series has been replaced with mfg P/N: PAM2305DGFADJ. The 335x SOM utilizes two of these supplies, one for the VIO_1P8 (U2, 1.8V power supply) and VIO_3P3 (U3, 3.3V power supply) domains.

1.2 Reason for Change

This change was implemented due to availability issues with the TPS62290 series. This is not expected to be a permanent change to the MitySOM-335x family and will be implemented as required to ensure continuity of supply chain with the SOM platform.

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

There is no change to the form, fit, or function of the module.

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

The switching frequency is different between the TPS62290 series and mfg P/N: PAM2305DGFADJ. The TPS62290 series has a switching frequency of 2.25 MHz and mfg P/N: PAM2305DGFADJ has a switching frequency of 1.5 MHz. Emissions testing was performed with the updated module and no impact to emissions performance was found.

There is no expected impact on quality or reliability.

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2 Products Affected

Details regarding the full revision history can be located in the MitySOM-335x Revision History section on the Critical Link support site.

https://support.criticallink.com/redmine/projects/armc8-platforms/wiki/Module_Product_Change_Notifications

Table 1 Products Affected

Model Number	Starting PCA	Replacement PCA
3352-HX-X38-RC	80-000596RC-9	N/A
3352-HX-X27-RC	80-000597RC-9	N/A
3352-HX-X27-RI	80-000597RI-9	N/A
3354-HX-X38-RC	80-000599RC-9	N/A
3354-HX-X38-RI	80-000599RI-9	N/A
3352-HX-XX7-RI	80-000601RI-9	N/A
3352-HX-X47-RI	80-000695RI-9	N/A
3354-HX-XX8-RC	80-000906RC-9	N/A
3358-IX-X38-RI	80-000907RI-9	N/A
3358-IX-X3A-RI	80-000927RI-9	N/A
3352-HX-X4A-RC	80-001019RC-9	N/A
3352-HX-X38-RC	80-001041RC-9	N/A
3352-HX-X38-RL	80-001088RL-9	N/A
3354-IX-XXA-RC	80-001341RC-9	N/A
3352-HX-X3A-RC	80-001471RC-9	N/A
3352-HX-X3A-RC	80-001472RC-9	N/A

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3 Document Revision History

Date	Version	Change Description
01-Jan-2023	1.0	Initial Version

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