

PCN# 20250818000

Design Updates for

MitySOM-C10G Modules

Date: August 18, 2025

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@criticallink.com](mailto:info@criticallink.com)

Sincerely,

Critical Link, LLC

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## **Overview**

Changes to MitySOM-C10G System on Modules are identified in the following sections.

## **1 Accommodate Fansink**

### **1.1 Description of Change**

U2 (DDR) was moved 0.5mm away from U1 (FPGA).

### **1.2 Reason for Change**

U2 was repositioned to allow for the addition of a clip-on fansink on U1, which would support improved thermal management.

### **1.3 Anticipated Impact on Quality or Reliability (positive / negative)**

Using a fansink improves the thermal management for U1, which significantly improves both the quality and reliability under all operating conditions.

## **2 Power Supply Update**

### **2.1 Description of Change**

U5, U13, U14 (power supplies) were changed to new parts.

### **2.2 Reason for Change**

Critical Link faced high fallout rates during assembly due to the previous power supply chips. After multiple revisions and tests of changing the paste profile and reflow profile with no success, the best path forward was to switch to a part with a more standardized and well documented footprint.

### **2.3 Anticipated Impact on Quality or Reliability (positive / negative)**

This change will enhance the manufacturability of the product while maintaining high quality and reliability.

### 3 Products Affected

Details regarding the full revision history are located in the MitySOM-C10G Revision History section on the Critical Link support site:

[https://support.criticallink.com/redmine/projects/mitysom\\_c10gx/wiki/Errata\\_and\\_Module\\_Product\\_Change\\_Notifications](https://support.criticallink.com/redmine/projects/mitysom_c10gx/wiki/Errata_and_Module_Product_Change_Notifications)

**Table 1 Products Affected**

Model Number	Starting PCA	Replacement PCA
C10G-6T-4XA-RI	80-001585RI-3	80-001585RI-4
C10G-6R-4XA-RI	80-001776RI-3	80-001776RI-4

### 4 Document Revision History

Date	Version	Change Description
08-18-2025	1.0	Initial Version