



## Product Change Notification / SYST-02DOZZ491

---

### Date:

10-Mar-2023

### Product Category:

General Purpose FPGAs, System On Chip FPGAs

### PCN Type:

Document Change

### Notification Subject:

Data Sheet - SmartFusion2 Microcontroller Subsystem User Guide

### Affected CPNs:

[SYST-02DOZZ491\\_Affected\\_CPN\\_03102023.pdf](#)

[SYST-02DOZZ491\\_Affected\\_CPN\\_03102023.csv](#)

### Notification Text:

SYST-02DOZZ491

Microchip has released a new Datasheet for the SmartFusion2 Microcontroller Subsystem User Guide of devices. If you are using one of these devices please read the document located at [SmartFusion2 Microcontroller Subsystem User Guide](#).

**Notification Status:** Final

#### Description of Change:

- Remapping eNVM data from eNVM\_1 memory block to Cortex®-M3 Code space is not permitted for SmartFusion® 2 M2S090/150 and IGLOO® 2 M2GL090/150 devices. For information about eNVM remapping and limitation, see the note under Figure 4-28.
- Timing models for Fabric to MSS interrupts have been updated with additional time delay. This changes the timing arcs of nets and interface between Fabric to MSS interrupts. For more information about the updated timing arcs, see PCN 17005A.
- Updated 1.5.2.3. Embedded Trace Macrocell to include information about timing arcs update from Fabric to Embedded Trace Macrocell.
- Updated 10.5.1. SGMII Interface Configuration to include information about timing arcs update from SerDes to Fabric.
- Updated 22.3.1. Configuring the FIIC Using the Libero SoC to include information about timing arcs update from Fabric to MSS interrupts.
- The document was converted to Microchip template.
- The document number was changed to DS50003495 from UG0331.

**Impacts to Data Sheet:** See above details.

**Reason for Change:** To Improve Productivity

**Change Implementation Status:** Complete

**Date Document Changes Effective:** 10 Mar 2023

**NOTE:** Please be advised that this is a change to the document only the product has not been changed.

**Markings to Distinguish Revised from Unrevised Devices:** N/A

## **Attachments:**

[SmartFusion2 Microcontroller Subsystem User Guide](#)

Please contact your local [Microchip sales office](#) with questions or concerns regarding this notification.

### **Terms and Conditions:**

If you wish to receive Microchip PCNs via email please register for our PCN email service at our [PCN home page](#) select register then fill in the required fields. You will find instructions about registering for Microchips PCN email service in the [PCN FAQ](#) section.

If you wish to change your PCN profile, including opt out, please go to the [PCN home page](#) select login and sign into your myMicrochip account. Select a profile option from the left navigation bar and make the applicable selections.

Affected Catalog Part Numbers (CPN)

M2S090T-1FGG676S0027  
M2S090T-1FGG676S0028  
M2S090T-1FGG676S0030  
M2S090T-1FGG676S0032  
M2S090T-1FGG676X416  
M2S090T-1FGG676Z246  
M2GL150TS-FCVG484I  
M2S090TS-1FG484MX3  
M2S090TS-1FG484MX399  
M2S090TS-1FG484MX471  
M2S090TS-1FG676  
M2S090TS-1FG676I  
M2S090TS-1FG676IX417  
M2S090TS-1FGG484  
M2S090TS-1FGG484I  
M2S090TS-1FGG484IX416  
M2S090TS-1FGG484IX418  
M2S090TS-1FGG484M  
M2S090TS-1FGG484T2  
M2S090TS-1FGG484X416  
M2S090TS-1FGG484X418  
M2S090TS-1FGG676  
M2S090TS-1FGG676H0017  
M2S090TS-1FGG676H0044  
M2S090TS-1FGG676H0046  
M2S090TS-1FGG676H0071  
M2S090TS-1FGG676H0090  
M2S090TS-1FGG676H0132  
M2S090TS-1FGG676H0144  
M2S090TS-1FGG676H0223  
M2S150-1FCV484I  
M2S150-1FCVG484  
M2S150-1FCVG484I  
M2S150-FC1152  
M2S150-FC1152I  
M2S150-FCG1152  
M2S150-FCG1152I  
M2S150-FCG1152X486  
M2S150-FCS536  
M2S150-FCS536I  
M2S150-FCSG536  
M2S150-FCSG536I  
M2S150-FCV484  
M2S150-FCV484I  
M2S150-FCVG484  
M2S150-FCVG484I

M2S150T-1FC1152  
M2S150T-1FC1152I  
M2S150T-1FC1152IX3  
M2S150T-1FC1152M  
M2S150T-1FC1152MX259  
M2S150T-1FCG1152  
M2S150T-1FCG1152I  
M2S150T-1FCG1152IX417  
M2S150T-1FCG1152M  
M2S150T-1FCG1152X416  
M2S150T-1FCS536  
M2S150T-1FCS536I  
M2S150T-1FCSG536  
M2S150T-1FCSG536I  
M2S150T-1FCV484  
M2S150T-1FCV484I  
M2S150T-1FCV484IX259  
M2S150T-1FCV484IX3  
M2S150T-1FCV484M  
M2S150T-1FCV484MX259  
M2S150T-1FCVG484  
M2S150T-1FCVG484I  
M2S150T-FC1152  
M2S150T-FC1152I  
M2S150T-FC1152X416  
M2S150T-FCG1152  
M2S150T-FCG1152I  
M2S150T-FCG1152X416  
M2S150T-FCG1152X417  
M2S150T-FCS536  
M2S150T-FCS536I  
M2S150T-FCSG536  
M2S150T-FCSG536I  
M2S150T-FCV484  
M2S150T-FCV484I  
M2S150T-FCVG484  
M2S150T-FCVG484I  
M2S150T-FCVG484IX94  
M2S150TS-1FC1152  
M2S150TS-1FC1152I  
M2S150TS-1FC1152IX130  
M2S150TS-1FC1152IX167  
M2S150TS-1FC1152IX3  
M2S150TS-1FC1152M  
M2S150TS-1FC1152MX259  
M2S150TS-1FC1152MX417  
M2S150TS-1FCG1152  
M2S150TS-1FCG1152H0012  
M2S150TS-1FCG1152H0038

M2S150TS-1FCG1152H0061  
M2S150TS-1FCG1152H0084  
M2S150TS-1FCG1152H0105  
M2S150TS-1FCG1152H0121  
M2S150TS-1FCG1152H0163  
M2S150TS-1FCG1152H0186  
M2S150TS-1FCG1152H0195  
M2S150TS-1FCG1152H0261  
M2S150TS-1FCG1152H0313  
M2S150TS-1FCG1152H0327  
M2S150TS-1FCG1152H0338  
M2S150TS-1FCG1152H0342  
M2S150TS-1FCG1152H0343  
M2S150TS-1FCG1152H0354  
M2S150TS-1FCG1152H0363  
M2S150TS-1FCG1152I  
M2S150TS-1FCG1152IX417  
M2S150TS-1FCG1152M  
M2S150TS-1FCG1152X416  
M2S150TS-1FCG1152X417  
M2S150TS-1FCS536  
M2S150TS-1FCS536I  
M2S150TS-1FCSG536  
M2S150TS-1FCSG536I  
M2S150TS-1FCV484  
M2S150TS-1FCV484I  
M2S150TS-1FCV484M  
M2S150TS-1FCVG484  
M2S150TS-1FCVG484I  
M2S150TS-DIELOTW  
M2S150TS-FC1152  
M2S150TS-FC1152I  
M2S150TS-FC1152X416  
M2S150TS-FCG1152  
M2S150TS-FCG1152H0012  
M2S150TS-FCG1152H0138  
M2S150TS-FCG1152I  
M2S150TS-FCG1152X416  
M2S150TS-FCS536  
M2S150TS-FCS536I  
M2S150TS-FCSG536  
M2S150TS-FCSG536I  
M2S150TS-FCSG536X416  
M2S150TS-FCV484  
M2S150TS-FCV484I  
M2S150TS-FCVG484  
M2S150TS-FCVG484I  
M2GL090-1FCS325  
M2GL090-1FCS325I

M2GL090-1FCSG325  
M2GL090-1FCSG325I  
M2GL090-1FG484  
M2GL090-1FG484I  
M2GL090-1FG484IX417  
M2GL090-1FG676  
M2GL090-1FG676I  
M2S090TS-1FGG676H0280  
M2S090TS-1FGG676H0374  
M2S090TS-1FGG676I  
M2S090TS-1FGG676IX418  
M2S090TS-1FGG676T2  
M2S090TS-1FGG676X416  
M2S090TS-DIELOTW  
M2S090TS-FCS325  
M2S090TS-FCS325I  
M2S090TS-FCS325IX416  
M2S090TS-FCS325IX417  
M2S090TS-FCSG325  
M2S090TS-FCSG325I  
M2S090TS-FCSG325IX418  
M2S090TS-FG484  
M2S090TS-FG484I  
M2S090TS-FG484IX416  
M2S090TS-FG484IX456  
M2S090TS-FG484X416  
M2S090TS-FG676  
M2S090TS-FG676I  
M2S090TS-FGG484  
M2S090TS-FGG484I  
M2S090TS-FGG484IH0365  
M2S090TS-FGG484IH0382  
M2S090TS-FGG484IX416  
M2S090TS-FGG484IX418  
M2S090TS-FGG484X416  
M2S090TS-FGG676  
M2S090TS-FGG676H0137  
M2S090TS-FGG676H0309  
M2S090TS-FGG676H0376  
M2S090TS-FGG676H0379  
M2S090TS-FGG676I  
M2S090TS-FGG676IH0053  
M2S090TS-FGG676IH0076  
M2S090TS-FGG676IH0107  
M2S090TS-FGG676IH0122  
M2S090TS-FGG676IH0145  
M2S090TS-FGG676IH0231  
M2S090TS-FGG676IH0258  
M2S090TS-FGG676IH0275

M2S090TS-FGG676IH0279  
M2S090TS-FGG676IH0334  
M2S090TS-FGG676IH0370  
M2S090TS-FGG676IS0004  
M2S090TS-FGG676IX416  
M2S090TS-FGG676X416  
M2S150-1FC1152  
M2S150-1FC1152I  
M2S150-1FCG1152  
M2S150-1FCG1152I  
M2S150-1FCS536  
M2S150-1FCS536I  
M2GL090T-1FG676I  
M2GL090T-1FGG484  
M2GL090T-1FGG484I  
M2GL090T-1FGG484M  
M2GL090T-1FGG676  
M2S090-FGG676X425  
M2S090T-1FCS325  
M2S090T-1FCS325I  
M2S090T-1FCSG325  
M2S090T-1FCSG325I  
M2S090T-1FCSG325Q183  
M2S090T-1FG484  
M2S090T-1FG484I  
M2S090T-1FG484IX399  
M2S090T-1FG484IX416  
M2S090T-1FG484IX538  
M2S090T-1FG484M  
M2S090T-1FG676  
M2S090T-1FG676I  
M2S090T-1FGG484  
M2S090T-1FGG484I  
M2S090T-1FGG484IX417  
M2S090T-1FGG484IX418  
M2S090T-1FGG484IX538  
M2S090T-1FGG484M  
M2S090T-1FGG484MX399  
M2S090T-1FGG484MX416  
M2S090T-1FGG484MX417  
M2S090T-1FGG484X538  
M2S090T-1FGG676  
M2S090T-1FGG676H0316  
M2S090T-1FGG676I  
M2S090T-1FGG676Q149  
M2S090T-1FGG676Q326  
M2S090T-1FGG676Q353  
M2S090T-1FGG676Q355  
M2S090T-1FGG676S0001

M2S090T-1FGG676S0002  
M2S090T-1FGG676S0003  
M2S090T-1FGG676S0006  
M2S090T-1FGG676S0007  
M2S090T-1FGG676S0012  
M2S090T-1FGG676S0016  
M2GL090T-FCSG325  
M2GL090T-FCSG325I  
M2GL090T-FG484  
M2GL090T-FG484I  
M2GL090T-FG676  
M2GL090T-FG676I  
M2GL090T-FGG484  
M2GL090T-FGG484I  
M2GL090T-FGG484IX416  
M2GL090T-FGG676  
M2GL090T-FGG676I  
M2GL090T-FGG676IX416  
M2GL090TS-1FCS325  
M2GL090TS-1FCS325I  
M2GL090TS-1FCSG325  
M2GL090TS-1FCSG325I  
M2GL090TS-1FG484  
M2GL090TS-1FG484I  
M2GL090TS-1FG484M  
M2GL090TS-1FG676  
M2GL090TS-1FG676I  
M2GL090TS-1FGG484  
M2GL090TS-1FGG484I  
M2GL090TS-1FGG484IX416  
M2GL090TS-1FGG484M  
M2GL090TS-1FGG484T2  
M2GL090TS-1FGG676  
M2GL090TS-1FGG676I  
M2GL090TS-1FGG676T2  
M2GL090TS-FCS325  
M2GL090TS-FCS325I  
M2GL090TS-FCSG325  
M2GL090TS-FCSG325I  
M2GL090TS-FG484  
M2GL090TS-FG484I  
M2GL090TS-FG676  
M2GL090TS-FG676I  
M2GL090TS-FGG484  
M2GL090TS-FGG484I  
M2GL090TS-FGG676  
M2GL090TS-FGG676I  
M2GL150-1FC1152  
M2GL150-1FC1152I



M2GL150-1FC1152IX259  
M2GL150-1FC1152IX441  
M2GL150-1FC1152IX520  
M2GL150-1FCG1152  
M2GL150-1FCG1152I  
M2GL150-1FCG1152IX417  
M2GL150-1FCG1152IX538  
M2GL150-1FCG1152X417  
M2GL150-1FCS536  
M2GL150-1FCS536I  
M2GL150-1FCSG536  
M2GL150-1FCSG536I  
M2GL150-1FCV484  
M2GL150-1FCV484I  
M2GL150-1FCVG484  
M2GL150-1FCVG484I  
M2GL150-FC1152  
M2GL150-FC1152I  
M2GL150-FC1152X417  
M2GL150-FCG1152  
M2GL150-FCG1152I  
M2GL150-FCS536  
M2GL150-FCS536I  
M2GL150-FCS536IX3  
M2GL150-FCSG536  
M2GL150-FCSG536I  
M2GL150-FCV484  
M2GL150-FCV484I  
M2GL150-FCVG484  
M2GL150-FCVG484I  
M2GL150-FCVG484IX475  
M2GL150T-1FC1152  
M2GL150T-1FC1152I  
M2GL150T-1FC1152IX417  
M2GL150T-1FC1152M  
M2GL150T-1FC1152MX3  
M2GL150T-1FC1152MX441  
M2GL150T-1FC1152MX520  
M2GL150T-1FCG1152  
M2GL150T-1FCG1152I  
M2GL150T-1FCG1152IX417  
M2GL150T-1FCG1152IX538  
M2GL150T-1FCG1152M  
M2GL150T-1FCS536  
M2GL150T-1FCS536I  
M2S090-1FCS325  
M2S090-1FCS325I  
M2S090-1FCSG325  
M2S090-1FCSG325I

M2S090-1FG484  
M2S090-1FG484I  
M2S090-1FG484IX6  
M2S090-1FG676  
M2S090-1FG676I  
M2S090-1FG676IX417  
M2S090-1FGG484  
M2S090-1FGG484I  
M2S090-1FGG484IX418  
M2S090-1FGG484X418  
M2S090-1FGG676  
M2S090-1FGG676I  
M2S090-1FGG676IX538  
M2S090-FCS325  
M2S090-FCS325I  
M2S090-FCS325X339  
M2S090-FCSG325  
M2S090-FCSG325I  
M2S090-FG484  
M2S090-FG484I  
M2S090-FG484IX416  
M2S090-FG484IX538  
M2S090-FG484X416  
M2S090-FG484X456  
M2S090-FG676  
M2S090-FG676I  
M2S090-FG676IX416  
M2S090-FG676X416  
M2S090-FGG484  
M2S090-FGG484I  
M2S090-FGG484IX416  
M2S090-FGG484IX417  
M2S090-FGG484IX418  
M2S090-FGG484X416  
M2S090-FGG484X417  
M2S090-FGG484X418  
M2S090-FGG484X456  
M2S090-FGG676  
M2S090-FGG676I  
M2S090-FGG676ORT  
M2S090-FGG676X416  
M2GL150TS-FCSG536I  
M2GL150TS-FCV484  
M2GL150TS-FCV484I  
M2GL150TS-FCVG484  
M2S090T-FCS325  
M2S090T-FCS325I  
M2S090T-FCSG325  
M2S090T-FCSG325I

M2S090T-FG484  
M2S090T-FG484I  
M2S090T-FG484X538  
M2S090T-FG676  
M2S090T-FG676I  
M2S090T-FG676IX417  
M2S090T-FGG484  
M2S090T-FGG484I  
M2S090T-FGG484IX417  
M2S090T-FGG484IX418  
M2S090T-FGG484X416  
M2S090T-FGG484X417  
M2S090T-FGG676  
M2S090T-FGG676I  
M2S090T-FGG676Q189  
M2S090T-FGG676S0006  
M2S090T-FGG676S0029  
M2S090T-FGG676X416  
M2S090TS-1FCS325  
M2S090TS-1FCS325I  
M2S090TS-1FCS325IX417  
M2S090TS-1FCS325IX418  
M2S090TS-1FCSG325  
M2S090TS-1FCSG325I  
M2S090TS-1FCSG325IX416  
M2S090TS-1FCSG325IX418  
M2S090TS-1FG484  
M2S090TS-1FG484I  
M2S090TS-1FG484IX3  
M2S090TS-1FG484IX416  
M2S090TS-1FG484IX418  
M2S090TS-1FG484M  
M2GL150T-1FCSG536  
M2GL150T-1FCSG536I  
M2GL150T-1FCV484  
M2GL150T-1FCV484I  
M2GL150T-1FCV484M  
M2GL150T-1FCVG484  
M2GL150T-1FCVG484I  
M2GL150T-FC1152  
M2GL150T-FC1152I  
M2GL150T-FCG1152  
M2GL150T-FCG1152I  
M2GL150T-FCG1152IX417  
M2GL150T-FCS536  
M2GL150T-FCS536I  
M2GL150T-FCSG536  
M2GL150T-FCSG536I  
M2GL150T-FCV484

M2GL150T-FCV484I  
M2GL150T-FCVG484  
M2GL150T-FCVG484I  
M2GL150TS-1FC1152  
M2GL150TS-1FC1152I  
M2GL150TS-1FC1152M  
M2GL150TS-1FCG1152  
M2GL150TS-1FCG1152I  
M2GL150TS-1FCG1152M  
M2GL150TS-1FCS536  
M2GL150TS-1FCS536I  
M2GL150TS-1FCSG536  
M2GL150TS-1FCSG536I  
M2GL150TS-1FCV484  
M2GL150TS-1FCV484I  
M2GL150TS-1FCV484M  
M2GL150TS-1FCVG484  
M2GL150TS-1FCVG484I  
M2GL150TS-1FCVG484IX323  
M2GL150TS-FC1152  
M2GL150TS-FC1152I  
M2GL150TS-FCG1152  
M2GL150TS-FCG1152I  
M2GL150TS-FCS536  
M2GL150TS-FCS536I  
M2GL150TS-FCSG536  
M2GL090T-1FGG676I  
M2GL090T-1FGG676IX418  
M2GL090T-FCS325  
M2GL090T-FCS325I  
M2GL090-1FG676IX259  
M2GL090-1FG676IX417  
M2GL090-1FG676IX441  
M2GL090-1FGG484  
M2GL090-1FGG484I  
M2GL090-1FGG484IX417  
M2GL090-1FGG484T1  
M2GL090-1FGG676  
M2GL090-1FGG676I  
M2GL090-1FGG676IX259  
M2GL090-1FGG676IX417  
M2GL090-1FGG676IX441  
M2GL090-FCS325  
M2GL090-FCS325I  
M2GL090-FCSG325  
M2GL090-FCSG325I  
M2GL090-FG484  
M2GL090-FG484I  
M2GL090-FG484IX3

M2GL090-FG484IX417  
M2GL090-FG484X416  
M2GL090-FG484X456  
M2GL090-FG676  
M2GL090-FG676I  
M2GL090-FG676X416  
M2GL090-FGG484  
M2GL090-FGG484I  
M2GL090-FGG484IX417  
M2GL090-FGG484IX418  
M2GL090-FGG484X416  
M2GL090-FGG484X418  
M2GL090-FGG484X456  
M2GL090-FGG484X505  
M2GL090-FGG676  
M2GL090-FGG676I  
M2GL090-FGG676X416  
M2GL090-FGG676X456  
M2GL090T-1FCS325  
M2GL090T-1FCS325I  
M2GL090T-1FC3G325  
M2GL090T-1FC3G325I  
M2GL090T-1FG484  
M2GL090T-1FG484I  
M2GL090T-1FG484IX417  
M2GL090T-1FG484M  
M2GL090T-1FG484MX418  
M2GL090T-1FG484MX6  
M2GL090T-1FG676  
M2S150-1FC3G536  
M2S150-1FC3G536I  
M2S150-1FCV484