



Product Change Notification / SYST-03ITMJ533

Date:

06-May-2024

Product Category:

System On Chip Fpgas

PCN Type:

Document Change

Notification Subject:

Data Sheet - PolarFire® SoC Datasheet

Affected CPNs:

[SYST-03ITMJ533_Affected_CPN_05062024.pdf](#)

[SYST-03ITMJ533_Affected_CPN_05062024.csv](#)

Notification Text:

SYST-03ITMJ533

Microchip has released a new Datasheet for the PolarFire® SoC Datasheet of devices. If you are using one of these devices please read the document located at [PolarFire® SoC Datasheet](#).

Notification Status: Final

Description of Change:

- Added two notes to Table 3-3 to explain how weak pullup and weak pulldown resistors should be calculated.
- Corrected Note 6 of Table 3-4. The maximum time allowed was listed as 300 μ s and should be 300 ns.
- Updated production timing and power support for MPFS095T and MPFS160T devices in commercial and industrial temperature grades and for MPFS250T in military temperature grade in Silicon and Libero Tool Status.
- Changed "CDR PPM tolerance" to "CDR frequency tolerance" for better clarity in Table 4-74.
- Clarified Note 1 and condition in Table 4-137.
- Clarified power-up requirement of VDDI3 in 4.10. Power-Up to Functional Timing and 4.10.3.2. I/O-Related Supplies.
- Redirected 1. Device Offering to a separate document entitled PolarFire® SoC Product Overview.
- Updated sections Zeroization Time and User Voltage Detector Characteristics as per PCN.
- Updated Table 4-68.
- Updated 4.3.4. RC Oscillators. Refer to the Change Impact Analysis.
- Corrected item in Table 4-38. Fabric clock maximum frequency for LPDDR3 on -STD speed grade devices was listed as 133 MHz and should be 100 MHz.

- Added TCPU in Boot Mode 2 in Table 4-129.
- Updated TSDDDRCKO₁ and TSDDDRCKO₂ in Table 4-9.
- Updated TSDHSCKO in Table 4-13.
- Updated TSDSCKO in Table 4-14.
- Authentication Service IDs were swapped. Table 4-111 has been updated.
- Updated 4.7.2. FPGA Programming Time, 4.7.3. FPGA Bitstream Sizes, 4.7.5. Digest Time, 4.7.7. Verify Time, 4.7.8. Authentication Time.

Impacts to Data Sheet: See above details

Change Implementation Status: Complete

Date Document Changes Effective: 06 May 2024

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:

[PolarFire® SoC Datasheet](#)

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

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Affected Catalog Part Numbers (CPN)

- MPFS025T-1FCSG325E
- MPFS025T-1FCSG325I
- MPFS025T-1FCVG484E
- MPFS025T-1FCVG484I
- MPFS025T-FCSG325E
- MPFS025T-FCSG325I
- MPFS025T-FCVG484E
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