PCN Number:	20200206007	PCN Date:	Feb 18, 2020
Title:	Datasheet for MSP430FR2111, MSP430FR2110, MSP430FR2100, MSP430FR2000		
Customer Contact:	PCN Manager	Dept:	Quality Services

Change Type:

☐	Assembly Site	☐	Design	☐	Wafer Bump Site
☐	Assembly Process	☒	Data Sheet	☐	Wafer Bump Material
☐	Assembly Materials	☐	Part number change	☐	Wafer Bump Process
☐	Mechanical Specification	☐	Test Site	☐	Wafer Fab Site
☐	Packing/Shipping/Labeling	☐	Test Process	☐	Wafer Fab Materials
				☐	Wafer Fab Process

Notification Details

Description of Change:

Texas Instruments Incorporated is announcing an information only notification.
The product datasheet(s) is being updated as summarized below.
The following change history provides further details.

TEXAS INSTRUMENTS

MSP430FR2111, MSP430FR2110, MSP430FR2100, MSP430FR2000

SLASE78D – AUGUST 2016 – REVISED DECEMBER 2019

Changes from August 30, 2018 to December 10, 2019 **Page**

- Changed the note that begins "Supply voltage changes faster than 0.2 V/µs can trigger a BOR reset..." in Section 5.3, *Recommended Operating Conditions* 13
- Added the note that begins "TI recommends that power to the DVCC pin must not exceed the limits..." in Section 5.3, *Recommended Operating Conditions* 13
- Added the note that begins "A capacitor tolerance of ±20% or better is required..." in Section 5.3, *Recommended Operating Conditions* 13
- Combined former sections 5.8 and 5.10 in Section 5.9, *Typical Characteristics – LPM Supply Currents* 17
- Added the note "See *MSP430 32-kHz Crystal Oscillators* for details on crystal section, layout, and testing" to Table 5-3, *XT1 Crystal Oscillator (Low Frequency)* 20
- Changed the note that begins "Requires external capacitors at both terminals..." in Table 5-3, *XT1 Crystal Oscillator (Low Frequency)* 20
- Added the $t_{(int)}$ parameter in Table 5-9, *Digital Inputs* 23
- Added the $t_{TB,cap}$ parameter in Table 5-12, *Timer_B* 25
- Changed the parameter symbol from R_I to $R_{I,MUX}$ in Table 5-18, *ADC, Power Supply and Input Range Conditions* 30
- Corrected the test conditions for the $R_{I,MUX}$ parameter in Table 5-18, *ADC, Power Supply and Input Range Conditions* 30
- Added $R_{I,Misc}$ TYP value of 34 kΩ in Table 5-18, *ADC, Power Supply and Input Range Conditions* 30
- Added $t_{CONVERT}$ for external ADCCLK source in Table 5-19, *ADC, 10-Bit Timing Parameters* 30
- Added formula for R_I in Table 5-19, *ADC, 10-Bit Timing Parameters* 30
- Added the note that begins "$t_{Sample} = \ln(2^{n+1}) \times \tau$ ..." in Table 5-19, *ADC, 10-Bit Timing Parameters* 30
- Removed the description of "±3°C" in table note that starts "The device descriptor structure ..." of Table 5-20, *ADC, 10-Bit Linearity Parameters* 31
- Corrected bitfield from IRDSEL to IRDSSEL in Section 6.11.8, *Timers (Timer0_B3)*, in the description that starts "The interconnection of Timer0_B3 ... " 45
- Corrected the ADCINCHx column heading in Table 6-14, *ADC Channel Connections* 47
- Added P1SELC information in Table 6-26, *Port P1, P2 Registers (Base Address: 0200h)* 51
- Added P2SELC information in Table 6-26, *Port P1, P2 Registers (Base Address: 0200h)* 51

The datasheet number will be changing.

Device Family	Change From:	Change To:
MSP430FR2111, MSP430FR2110, MSP430FR2100, MSP430FR2000	SLASE78C	SLASE78D

These changes may be reviewed at the datasheet links provided.

http://www.ti.com/product/MSP430FR2000

Reason for Change:

To accurately reflect device characteristics.

Anticipated impact on Fit, Form, Function, Quality or Reliability (positive / negative):

No anticipated impact. This is a specification change announcement only. There are no changes to the actual device.

Changes to product identification resulting from this PCN:			
None.			
Product Affected:			
MSP430FR2000IPW16	MSP430FR2000IPW16R	MSP430FR2000IRLLR	MSP430FR2000IRLLT
MSP430FR2100IPW16	MSP430FR2100IPW16R	MSP430FR2100IRLLR	MSP430FR2100IRLLT
MSP430FR2110IPW16	MSP430FR2110IPW16R	MSP430FR2110IRLLR	MSP430FR2110IRLLT
MSP430FR2111IPW16	MSP430FR2111IPW16R	MSP430FR2111IRLLR	MSP430FR2111IRLLT

For questions regarding this notice, e-mails can be sent to the contacts shown below or your local Field Sales Representative.

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