

PCN Number:	20200206007	PCN Date:	Feb 18, 2020
Title:	Datasheet for MSP430FR2111, MSP430FR2110, MSP430FR2100, MSP430FR2000		
Customer Contact:	PCN Manager	Dept:	Quality Services
Change Type:			
<input type="checkbox"/>	Assembly Site	<input type="checkbox"/>	Design
<input type="checkbox"/>	Assembly Process	<input checked="" type="checkbox"/>	Data Sheet
<input type="checkbox"/>	Assembly Materials	<input type="checkbox"/>	Part number change
<input type="checkbox"/>	Mechanical Specification	<input type="checkbox"/>	Test Site
<input type="checkbox"/>	Packing/Shipping/Labeling	<input type="checkbox"/>	Test Process
<input type="checkbox"/>		<input type="checkbox"/>	Wafer Bump Site
<input type="checkbox"/>		<input type="checkbox"/>	Wafer Bump Material
<input type="checkbox"/>		<input type="checkbox"/>	Wafer Bump Process
<input type="checkbox"/>		<input type="checkbox"/>	Wafer Fab Site
<input type="checkbox"/>		<input type="checkbox"/>	Wafer Fab Materials
<input type="checkbox"/>		<input type="checkbox"/>	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.



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

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