

PCN Number:	20200206006	PCN Date:	Feb 18, 2020
Title:	Datasheet for MSP430FR2311, MSP430FR2310		
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.



TEXAS
INSTRUMENTS

MSP430FR2311, MSP430FR2310

SLASE58E –FEBRUARY 2016–REVISED DECEMBER 2019

Changes from August 29, 2018 to December 9, 2019

Page

• Updated Section 3.1, Related Products	7
• 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	15
• 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	15
• Changed the note that begins "A capacitor tolerance of ±20% or better is required..." in Section 5.3, Recommended Operating Conditions	15
• Combined former sections 5.8 and 5.10 to Section 5.9, Production Distribution of LPM Supply Currents	19
• Corrected "SVS Enabled" test condition on Figure 5-2, LPM3.5 Supply Current vs Temperature	19
• 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)	23
• Changed the note that begins "Requires external capacitors at both terminals..." in Table 5-3, XT1 Crystal Oscillator (Low Frequency)	23
• Added the $t_{TB,cap}$ parameter in Table 5-13, Timer_B	30
• Changed the parameter symbol from R_i to $R_{i,MUX}$ in Table 5-20, ADC, Power Supply and Input Range Conditions ..	36
• Corrected the test conditions for the $R_{i,MUX}$ parameter in Table 5-20, ADC, Power Supply and Input Range Conditions	36
• Added $R_{i,Misc}$ TYP value of 34 kΩ in Table 5-20, ADC, Power Supply and Input Range Conditions	36
• Added formula for R_i in Table 5-21, ADC, 10-Bit Timing Parameters	36
• Added the note that begins " $t_{Sample} = \ln(2^{n+1}) \times \tau$..." in Table 5-21, ADC, 10-Bit Timing Parameters	36
• Corrected bitfield from RTCCLK to RTCCSEL in Table 6-8, Clock Distribution	51
• Corrected bitfield from IRDSEL to IRDSSEL in Section 6.11.8, Timers (Timer0_B3, Timer1_B3) , in the description that starts "The interconnection of Timer0_B3 and ..."	54
• Added P1SEL information in Table 6-31, Port P1, P2 Registers (Base Address: 0200h)	65
• Added P2SEL information in Table 6-31, Port P1, P2 Registers (Base Address: 0200h)	65
• Added note to "ADC calibration" in Table 6-46, Device Descriptors	72

The datasheet number will be changing.

Device Family	Change From:	Change To:
MSP430FR2311, MSP430FR2310	SLASE58D	SLASE58E

These changes may be reviewed at the datasheet links provided.

<http://www.ti.com/product/MSP430FR2310>

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:

MSP430FR2310IPW16	MSP430FR2310IPW16R	MSP430FR2310IPW20	MSP430FR2310IPW20R
MSP430FR2310IRGYR	MSP430FR2310IRGYT	MSP430FR2311IPW16	MSP430FR2311IPW16R
MSP430FR2311IPW20	MSP430FR2311IPW20R	MSP430FR2311IRGYR	MSP430FR2311IRGYT

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