

PCN Number:	20200203001	PCN Date:	Feb. 18, 2020
Title:	Datasheet for MSP430FR2522, MSP430FR2512, MSP430FR2422, MSP430FR2476, MSP430FR2475		
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"/>	Wafer Bump Site
		<input type="checkbox"/>	Wafer Bump Material
		<input type="checkbox"/>	Wafer Bump Process
		<input type="checkbox"/>	Wafer Fab Site
		<input type="checkbox"/>	Wafer Fab Materials
		<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.



MSP430FR2522, MSP430FR2512

SLASEE4C – JANUARY 2018 – REVISED DECEMBER 2019

Changes from August 20, 2019 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](#) [16](#)
- 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](#) [16](#)
- Changed the note that begins "A capacitor tolerance of ±20% or better is required..." in [Section 5.3, Recommended Operating Conditions](#) [16](#)
- Added the note "See *MSP430 32-kHz Crystal Oscillators* for details on crystal section, layout, and testing" to [Table 5-4, XT1 Crystal Oscillator \(Low Frequency\)](#) [24](#)
- Changed the note that begins "Requires external capacitors at both terminals..." in [Table 5-4, XT1 Crystal Oscillator \(Low Frequency\)](#) [24](#)
- Added the $t_{TA, cap}$ parameter in [Table 5-13, Timer_A](#) [30](#)
- Corrected the test conditions for the R_I parameter in [Table 5-20, ADC, Power Supply and Input Range Conditions](#). [37](#)
- Added the note that begins " $t_{sample} = \ln(2^{n+1}) \times \tau$..." in [Table 5-21, ADC, 10-Bit Timing Parameters](#) [37](#)
- Changed the CRC covered end address to 0x1AF5 in note (1) in [Table 6-18, Device Descriptors](#) [60](#)
- Added "1.5-V reference factor" in [Table 6-18, Device Descriptors](#) [61](#)



MSP430FR2422

SLASEE5C – JANUARY 2018 – REVISED DECEMBER 2019

Changes from August 20, 2019 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](#)
- Changed the note that begins "A capacitor tolerance of ±20% or better is required..." in [Section 5.3, Recommended Operating Conditions](#) [13](#)
- Added the note "See *MSP430 32-kHz Crystal Oscillators* for details on crystal section, layout, and testing" to [Table 5-4, XT1 Crystal Oscillator \(Low Frequency\)](#) [20](#)
- Changed the note that begins "Requires external capacitors at both terminals..." in [Table 5-4, XT1 Crystal Oscillator \(Low Frequency\)](#) [20](#)
- Added the $t_{TA, cap}$ parameter in [Table 5-13, Timer_A](#) [26](#)
- Corrected the test conditions for the R_I parameter in [Table 5-20, ADC, Power Supply and Input Range Conditions](#). [33](#)
- Added the note that begins " $t_{sample} = \ln(2^{n+1}) \times \tau$..." in [Table 5-21, ADC, 10-Bit Timing Parameters](#) [33](#)
- Changed the CRC covered end address to 0x1AF5 in note (1) in [Table 6-18, Device Descriptors](#) [55](#)
- Added "1.5-V reference factor" in [Table 6-18, Device Descriptors](#) [56](#)

Changes from April 26, 2019 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](#) [21](#)
- 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](#) [21](#)
- Changed the note that begins "A capacitor tolerance of ±20% or better is required..." in [Section 5.3, Recommended Operating Conditions](#) [21](#)
- Added the note "See [MSP430 32-kHz Crystal Oscillators](#) for details on crystal section, layout, and testing" to [Table 5-4, XT1 Crystal Oscillator \(Low Frequency\)](#) [28](#)
- Changed the note that begins "Requires external capacitors at both terminals..." in [Table 5-4, XT1 Crystal Oscillator \(Low Frequency\)](#) [28](#)
- Added the $t_{TA, cap}$ parameter in [Table 5-13, Timer_A](#) [35](#)
- Added the $t_{TB, cap}$ parameter in [Table 5-14, Timer_B](#) [35](#)
- Corrected the test conditions for the R_1 parameter in [Table 5-21, ADC, Power Supply and Input Range Conditions](#). [42](#)
- Added the note that begins " $t_{Sample} = \ln(2^{n+1}) \times \tau$..." in [Table 5-22, ADC, Timing Parameters](#) [42](#)
- Changed CRC covered end address to 0x1AF7 in table note (1) in [Table 6-30, Device Descriptors](#) [72](#)

The datasheet number will be changing.

Device Family	Change From:	Change To:
MSP430FR2522, MSP430FR2512	SLASEE4B	SLASEE4C
MSP430FR2422	SLASEE5B	SLASEE5C
MSP430FR2476, MSP430FR2475	SLASE07A	SLASE07B

These changes may be reviewed at the datasheet links provided.

<http://www.ti.com/product/MSP430FR2522>
<http://www.ti.com/product/MSP430FR2422>
<http://www.ti.com/product/MSP430FR2475>
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:

MSP430FR2512IPW16	MSP430FR2512IPW16R	MSP430FR2512IRHLR	MSP430FR2512IRHLT
MSP430FR2522IPW16	MSP430FR2522IPW16R	MSP430FR2522IRHLR	MSP430FR2522IRHLT
MSP430FR2422IPW16	MSP430FR2422IPW16R	MSP430FR2422IRHLR	MSP430FR2422IRHLT
MSP430FR2475TPT	MSP430FR2475TPTR	MSP430FR2475TRHAR	MSP430FR2475TRHAT
MSP430FR2475TRHBR	MSP430FR2475TRHBT	MSP430FR2476TPT	MSP430FR2476TPTR
MSP430FR2476TRHAR	MSP430FR2476TRHAT	MSP430FR2476TRHBR	MSP430FR2476TRHBT

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