



12500 TI Boulevard, MS 8640, Dallas, Texas 75243

**Notification# 20200206004
Datasheet for MSP430FR2633, MSP430FR2632,
MSP430FR2533, MSP430FR2532
Information Only**

Date: February 19, 2020
To: PREMIER FARNELL PCN

Dear Customer:

This is an information-only announcement of a change to the datasheet for a device that is currently offered by Texas Instruments.

The changes discussed within this notification are for your information only.

Any negotiated alternative change requirements will be provided via the customer's defined process. Customers with previously negotiated, special requirements will be handled separately. Any inquiries should be directed to your local Field Sales Representative.

For questions regarding this notice, contact your local Field Sales Representative or the PCN Manager (PCN_ww_admin_team@list.ti.com).

Sincerely,

PCN Team
SC Business Services

Information Only Attachments

Products Affected:

The devices listed on this page are a subset of the complete list of affected devices. According to our records, these are the devices that you have purchased within the past twenty-four (24) months. The corresponding customer part number is also listed, if available.

| DEVICE | CUSTOMER PART NUMBER |
|-------------------|-----------------------------|
| MSP430FR2532IRGET | null |
| MSP430FR2533IRHBT | null |
| MSP430FR2632IRGET | null |
| MSP430FR2633IRHBT | null |
| MSP430FR2633IYQWT | null |

Technical details of this Product Change follow on the next page(s).

| | | | |
|--------------------------|--|-------------------------------------|---------------------|
| PCN Number: | 20200206004 | PCN Date: | Feb 18, 2020 |
| Title: | Datasheet for MSP430FR2633, MSP430FR2632, MSP430FR2533, MSP430FR2532 | | |
| 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

MSP430FR2633, MSP430FR2632, MSP430FR2533, MSP430FR2532

SLAS942E – NOVEMBER 2015 – REVISED DECEMBER 2019

Changes from August 20, 2019 to December 9, 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](#) [20](#)
- 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](#) [20](#)
- Changed the note that begins "A capacitor tolerance of ±20% or better is required..." in [Section 5.3, Recommended Operating Conditions](#) [20](#)
- Changed the note that begins "Requires external capacitors at both terminals..." in [Table 5-4, XT1 Crystal Oscillator \(Low Frequency\)](#) [28](#)
- Added the $t_{(int)}$ parameter in [Table 5-10, Digital Inputs](#) [32](#)
- Added the $t_{T, cap}$ parameter in [Table 5-13, Timer_A](#) [34](#)
- Corrected the test conditions for the $R_{I, MUX}$ parameter in [Table 5-20, ADC, Power Supply and Input Range Conditions](#) [40](#)
- Added the note that begins " $t_{Sample} = \ln(2^{n+1}) \times \tau$..." in [Table 5-21, ADC, 10-Bit Timing Parameters](#) [40](#)
- Moved C_{REG} and $C_{ELECTRODE}$ from [Section 5.3, Recommended Operating Conditions](#) to [Table 5-23, CapTlvate Electrical Characteristics](#) [42](#)
- Changed the CRC covered end address to 0x1AF5 in note (1) in [Table 6-22, Device Descriptors](#) [67](#)

The datasheet number will be changing.

| Device Family | Change From: | Change To: |
|--|--------------|------------|
| MSP430FR2633, MSP430FR2632, MSP430FR2533, MSP430FR2532 | SLAS942D | SLAS942E |

These changes may be reviewed at the datasheet links provided.

<http://www.ti.com/product/MSP430FR2532>

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:

| | | | |
|-------------------|-------------------|-------------------|-------------------|
| MSP430FR2532IRGER | MSP430FR2532IRGET | MSP430FR2533IDA | MSP430FR2533IDAR |
| MSP430FR2533IRHBR | MSP430FR2533IRHBT | MSP430FR2632IRGER | MSP430FR2632IRGET |
| MSP430FR2632IYQWR | MSP430FR2632IYQWT | MSP430FR2633IDA | MSP430FR2633IDAR |
| MSP430FR2633IRHBR | MSP430FR2633IRHBT | MSP430FR2633IYQWR | MSP430FR2633IYQWT |

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

| Location | E-Mail |
|--------------|--|
| USA | PCNAmericasContact@list.ti.com |
| Europe | PCNEuropeContact@list.ti.com |
| Asia Pacific | PCNAsiaContact@list.ti.com |
| WW PCN Team | PCN_ww_admin_team@list.ti.com |

IMPORTANT NOTICE AND DISCLAIMER

TI PROVIDES TECHNICAL AND RELIABILITY DATA (INCLUDING DATASHEETS), DESIGN RESOURCES (INCLUDING REFERENCE DESIGNS), APPLICATION OR OTHER DESIGN ADVICE, WEB TOOLS, SAFETY INFORMATION, AND OTHER RESOURCES “AS IS” AND WITH ALL FAULTS, AND DISCLAIMS ALL WARRANTIES, EXPRESS AND IMPLIED, INCLUDING WITHOUT LIMITATION ANY IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR NON-INFRINGEMENT OF THIRD PARTY INTELLECTUAL PROPERTY RIGHTS.

These resources are intended for skilled developers designing with TI products. You are solely responsible for (1) selecting the appropriate TI products for your application, (2) designing, validating and testing your application, and (3) ensuring your application meets applicable standards, and any other safety, security, or other requirements. These resources are subject to change without notice. TI grants you permission to use these resources only for development of an application that uses the TI products described in the resource. Other reproduction and display of these resources is prohibited. No license is granted to any other TI intellectual property right or to any third party intellectual property right. TI disclaims responsibility for, and you will fully indemnify TI and its representatives against, any claims, damages, costs, losses, and liabilities arising out of your use of these resources.

TI's products are provided subject to TI's Terms of Sale (www.ti.com/legal/termsofsale.html) or other applicable terms available either on ti.com or provided in conjunction with such TI products. TI's provision of these resources does not expand or otherwise alter TI's applicable warranties or warranty disclaimers for TI products.