



**12500 TI Boulevard, MS 8640, Dallas, Texas 75243**

**Notification# 20200921000**  
**Datasheet for TMS320F2837xS, TMS320F2837xD, TMS320F28076**  
**Information Only**

**Date:** October 08, 2020  
**To:** TOKYO ELECTRON DEVICE (DSTR) 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 team ([PCN\\_ww\\_admin\\_team@list.ti.com](mailto: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
TMS320F28375DPTPT	null
TMS320F28375SPTPT	null
TMS320F28377SPTPT	null
TMS320F28377SPTPQ	null
TMS320F28075PZPT	null
TMS320F28377SPTPS	null
TMS320F28375DZWTT	null
TMS320F28377DPTPT	null
TMS320F28379DPTPT	null
TMS320F28075PZPQ	null

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

<b>Notification Number:</b>	20200921000	<b>Notification Date:</b>	Oct. 8, 2020
<b>Title:</b>	Datasheet for TMS320F2837xS, TMS320F2837xD, TMS320F2807x		
<b>Customer Contact:</b>	<a href="#">PCN Manager</a>	<b>Dept:</b>	Quality Services
<b>Change Type:</b>	Electrical Specification		

## 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.



**TMS320F28379S, TMS320F28378S, TMS320F28377S  
TMS320F28376S, TMS320F28375S, TMS320F28374S**

SPRS881I – AUGUST 2014 – REVISED JUNE 2020

Changes from March 3, 2020 to June 25, 2020 (from H Revision (March 2020) to I Revision)	Page
• <b>Global:</b> Changed "debug probe" to "JTAG debug probe".	<a href="#">1</a>
• <b>Section 1.1</b> (Features): Updated "Functional Safety-Compliant" feature. Added "Safety-related certification" feature.	<a href="#">1</a>
• <b>Section 5.1</b> (Absolute Maximum Ratings): Updated Input clamp current.	<a href="#">51</a>
• <b>Table 5-4</b> (Reset (XRS) Timing Requirements): Updated $t_{w(RSL2)}$ .	<a href="#">62</a>
• <b>Section 5.11.5.1</b> (SDFM Electrical Data and Timing (Using ASYNC)): Added WARNING about Mode 2 (Manchester Mode).	<a href="#">141</a>
• <b>Table 5-67</b> (SDFM Timing Requirements When Using Asynchronous GPIO (ASYNC) Option): Added four parameters to Mode 2 section.	<a href="#">141</a>
• <b>Figure 5-58</b> (SDFM Timing Diagram – Mode 2): Updated figure.	<a href="#">143</a>
• <b>Section 5.12.2.1</b> (I2C Electrical Data and Timing): Updated NOTE about I2C module clock.	<a href="#">149</a>
• <b>Table 5-69</b> (I2C Timing Requirements): Updated table.	<a href="#">149</a>
• <b>Table 5-70</b> (I2C Switching Characteristics): Updated table.	<a href="#">149</a>
• <b>Figure 5-62</b> (I2C Timing Diagram): Added figure.	<a href="#">150</a>
• <b>Figure 5-70</b> (SCI Block Diagram): Updated figure.	<a href="#">162</a>
• <b>Figure 5-73</b> (SPI Master Mode External Timing (Clock Phase = 1)): Updated Parameter 24.	<a href="#">169</a>
• <b>Table 5-80</b> (SPI Slave Mode Timing Requirements): Updated Parameter 25, $t_{su(STE)S}$ .	<a href="#">170</a>
• <b>Table 6-2</b> (Addresses of Flash Sectors on F28379S, F28378S, F28377S, and F28375S): Updated START ADDRESS and END ADDRESS of Flash ECC (Sector 14) to Flash ECC (Sector 27).	<a href="#">182</a>
• <b>Table 6-5</b> (Peripheral Registers Memory Map): Added footnote about address overlap of PieCtrlRegs and Cla1SoftIntRegs.	<a href="#">185</a>
• <b>Section 6.15</b> (Functional Safety): Updated section.	<a href="#">206</a>

**Changes from March 3, 2020 to June 25, 2020 (from L Revision (March 2020) to M Revision)**
**Page**

• <b>Global:</b> Changed "debug probe" to "JTAG debug probe".	<a href="#">1</a>
• <b>Section 1.1</b> (Features): Updated "Functional Safety-Compliant" feature. Added "Safety-related certification" feature..	<a href="#">1</a>
• <b>Section 5.1</b> (Absolute Maximum Ratings): Updated Input clamp current.	<a href="#">51</a>
• <b>Table 5-4</b> (Reset (XRS) Timing Requirements): Updated $t_{w(RSL2)}$ .	<a href="#">62</a>
• <b>Section 5.11.5.1</b> (SDFM Electrical Data and Timing (Using ASYNC)): Added WARNING about Mode 2 (Manchester Mode).	<a href="#">142</a>
• <b>Table 5-67</b> (SDFM Timing Requirements When Using Asynchronous GPIO (ASYNC) Option): Added four parameters to Mode 2 section.	<a href="#">142</a>
• <b>Figure 5-58</b> (SDFM Timing Diagram – Mode 2): Updated figure.	<a href="#">144</a>
• <b>Section 5.12.2.1</b> (I2C Electrical Data and Timing): Updated NOTE about I2C module clock.	<a href="#">150</a>
• <b>Table 5-69</b> (I2C Timing Requirements): Updated table.	<a href="#">150</a>
• <b>Table 5-70</b> (I2C Switching Characteristics): Updated table.	<a href="#">150</a>
• <b>Figure 5-62</b> (I2C Timing Diagram): Added figure.	<a href="#">151</a>
• <b>Figure 5-70</b> (SCI Block Diagram): Updated figure.	<a href="#">163</a>
• <b>Figure 5-73</b> (SPI Master Mode External Timing (Clock Phase = 1)): Updated Parameter 24.	<a href="#">170</a>
• <b>Table 5-80</b> (SPI Slave Mode Timing Requirements): Updated Parameter 25, $t_{su(STE)S}$ .	<a href="#">171</a>
• <b>Table 6-5</b> (Peripheral Registers Memory Map): Added footnote about address overlap of PieCtrlRegs and Cla1SoftIntRegs.	<a href="#">185</a>
• <b>Section 6.16</b> (Functional Safety): Updated section.	<a href="#">207</a>

**Changes from March 3, 2020 to June 25, 2020 (from H Revision (March 2020) to I Revision)**
**Page**

• <b>Global:</b> Changed "debug probe" to "JTAG debug probe".	<a href="#">1</a>
• <b>Section 1.1</b> (Features): Updated "Functional Safety-Compliant" feature. Added "Safety-related certification" feature.	<a href="#">1</a>
• <b>Section 5.1</b> (Absolute Maximum Ratings): Updated Input clamp current.	<a href="#">36</a>
• <b>Table 5-5</b> (Reset (XRS) Timing Requirements): Updated $t_{w(RSL2)}$ .	<a href="#">49</a>
• <b>Section 5.11.5.1</b> (SDFM Electrical Data and Timing (Using ASYNC)): Added WARNING about Mode 2 (Manchester Mode).	<a href="#">122</a>
• <b>Table 5-64</b> (SDFM Timing Requirements When Using Asynchronous GPIO (ASYNC) Option): Added four parameters to Mode 2 section.	<a href="#">122</a>
• <b>Figure 5-54</b> (SDFM Timing Diagram – Mode 2): Updated figure.	<a href="#">124</a>
• <b>Section 5.12.2.1</b> (I2C Electrical Data and Timing): Updated NOTE about I2C module clock.	<a href="#">130</a>
• <b>Table 5-66</b> (I2C Timing Requirements): Updated table.	<a href="#">130</a>
• <b>Table 5-67</b> (I2C Switching Characteristics): Updated table.	<a href="#">130</a>
• <b>Figure 5-58</b> (I2C Timing Diagram): Added figure.	<a href="#">131</a>
• <b>Figure 5-66</b> (SCI Block Diagram): Updated figure.	<a href="#">143</a>
• <b>Figure 5-69</b> (SPI Master Mode External Timing (Clock Phase = 1)): Updated Parameter 24.	<a href="#">150</a>
• <b>Table 5-77</b> (SPI Slave Mode Timing Requirements): Updated Parameter 25, $t_{su(STE)S}$ .	<a href="#">151</a>
• <b>Table 6-4</b> (Peripheral Registers Memory Map): Added footnote about address overlap of PieCtrlRegs and Cla1SoftIntRegs.	<a href="#">159</a>
• <b>Section 6.15</b> (Functional Safety): Updated section.	<a href="#">178</a>

The datasheet number will be changing.

Device Family	Change From:	Change To
TMS320F28379S, TMS320F28378S, TMS320F28377S, TMS320F28376S, TMS320F28375S, TMS320F28374S	SPRS881H	SPRS881I
TMS320F28379D, TMS320F28378D, TMS320F28377D, TMS320F28376D, TMS320F28375D, TMS320F28374D	SPRS880L	SPRS880M
TMS320F28076, TMS320F28075	SPRS902H	SPRS902I

These changes may be reviewed at the datasheet links provided.

<http://www.ti.com/product/TMS320F28379S>

<http://www.ti.com/product/TMS320F28379D>

<http://www.ti.com/product/TMS320F28076>

#### 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 notification:

None.

#### Product Affected:

TMS320F28075PTPQ	TMS320F28374SZWTT	TMS320F28376DZWTT	TMS320F28377SPZPS
TMS320F28075PTPS	TMS320F28374SZWTTR	TMS320F28376SPTPS	TMS320F28377SPZPT
TMS320F28075PTPT	TMS320F28375DPTPS	TMS320F28376SPTPT	TMS320F28377SZWTQ
TMS320F28075PZPQ	TMS320F28375DPTPT	TMS320F28376SPZPS	TMS320F28377SZWTS
TMS320F28075PZPS	TMS320F28375DPZPS	TMS320F28376SPZPT	TMS320F28377SZWTT
TMS320F28075PZPT	TMS320F28375DZWTS	TMS320F28376SZWTS	TMS320F28378DPTPS
TMS320F28076PTPS	TMS320F28375DZWTT	TMS320F28376SZWTT	TMS320F28378SPTPS
TMS320F28076PZPS	TMS320F28375SPTPS	TMS320F28377DPTPQ	TMS320F28378SPZPS
TMS320F2807NPTPT	TMS320F28375SPTPT	TMS320F28377DPTPS	TMS320F28379DPTPQ
TMS320F28374DPTPS	TMS320F28375SPZPQ	TMS320F28377DPTPT	TMS320F28379DPTPS
TMS320F28374DPTPT	TMS320F28375SPZPQR	TMS320F28377DZWTQ	TMS320F28379DPTPT
TMS320F28374DZWTS	TMS320F28375SPZPS	TMS320F28377DZWTQR	TMS320F28379DZWTS
TMS320F28374DZWTT	TMS320F28375SPZPT	TMS320F28377DZWTS	TMS320F28379DZWTT
TMS320F28374SPTPS	TMS320F28375SZWTS	TMS320F28377DZWTT	TMS320F28379SPTPS
TMS320F28374SPTPT	TMS320F28375SZWTT	TMS320F28377SPTPQ	TMS320F28379SPTPT
TMS320F28374SPZPS	TMS320F28376DPTPS	TMS320F28377SPTPS	TMS320F28379SPZPS
TMS320F28374SPZPT	TMS320F28376DPTPT	TMS320F28377SPTPT	TMS320F28379SPZPT
TMS320F28374SZWTS	TMS320F28376DZWTS	TMS320F28377SPZPQ	TMS320F28379SZWTS
TMS320F28379SZWTT			

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	<a href="mailto:PCNAmericasContact@list.ti.com">PCNAmericasContact@list.ti.com</a>
Europe	<a href="mailto:PCNEuropeContact@list.ti.com">PCNEuropeContact@list.ti.com</a>
Asia Pacific	<a href="mailto:PCNAsiaContact@list.ti.com">PCNAsiaContact@list.ti.com</a>
WW PCN Team	<a href="mailto:PCN_ww_admin_team@list.ti.com">PCN_ww_admin_team@list.ti.com</a>

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