

<b>PCN Number:</b>	20180406000	<b>PCN Date:</b>	April 09, 2018
<b>Title:</b>	Datasheet for TMS320F28374S - TMS320F28379S		
<b>Customer Contact:</b>	<a href="#">PCN Manager</a>	<b>Dept:</b>	Quality Services
<b>Change Type:</b>			
<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.



TMS320F28379S, TMS320F28377S  
TMS320F28376S, TMS320F28375S, TMS320F28374S  
SPRS881E –AUGUST 2014–REVISED MARCH 2018

Changes from July 25, 2017 to March 14, 2018 (from D Revision (July 2017) to E Revision)	Page
• <b>Global:</b> Globally removed TMS320F28378S. ....	<a href="#">1</a>
• <b>Section 1.1 (Features):</b> Added "Unique Identification Number" feature. ....	<a href="#">1</a>
• <b>Section 1.1:</b> Added "Configurable Logic Block (CLB)" feature. ....	<a href="#">1</a>
• <b>Table 3-1 (Device Comparison):</b> Changed Conversion Time for ADC 12-bit mode from 290 ns to 280 ns. ....	<a href="#">7</a>
• <b>Table 5-1 (Device Current Consumption at 200-MHz SYSCLK):</b> Changed "Operational (RAM)" to "Operational". Updated I <sub>DD</sub> MAX values. Added footnote about brownout events. ....	<a href="#">52</a>
• <b>Section 5.6 (Electrical Characteristics):</b> Added V <sub>HYSTERESIS</sub> . ....	<a href="#">56</a>
• <b>Table 5-11 (PLL Lock Times):</b> Updated footnote. ....	<a href="#">64</a>
• <b>Table 5-20 (Flash Parameters):</b> Changed "Erase Time at 50k cycles" to "Erase Time at 20k cycles". ....	<a href="#">69</a>
• <b>Section 5.9 (Analog Peripherals):</b> Updated list of analog subsystem features. ....	<a href="#">94</a>
• <b>Section 5.9.1.1 (ADC Configurability):</b> Added section. ....	<a href="#">99</a>
• <b>Table 5-42 (ADC Operating Conditions (16-Bit Differential Mode)):</b> Added footnote about V <sub>REFCM</sub> requirements. ...	<a href="#">101</a>
• <b>Section 5.9.1.2.2 (ADC Timing Diagrams):</b> Updated section. ....	<a href="#">107</a>
• <b>Table 5-50 (ADC Timing Parameters):</b> Added table. ....	<a href="#">107</a>
• <b>Figure 5-49 (ePWM Submodules and Critical Internal Signal Interconnects):</b> Updated figure. ....	<a href="#">125</a>
• <b>Section 5.11.2.1 (I2C Electrical Data and Timing):</b> Added NOTE about meeting I2C protocol timing specifications. ....	<a href="#">141</a>
• <b>Table 5-72 (McBSP as SPI Master or Slave Switching Characteristics (CLKSTP = 10b, CLKXP = 0)):</b> Updated table title. ....	<a href="#">147</a>
• <b>Table 5-74 (McBSP as SPI Master or Slave Switching Characteristics (CLKSTP = 11b, CLKXP = 0)):</b> Updated table title. ....	<a href="#">148</a>
• <b>Table 5-76 (McBSP as SPI Master or Slave Switching Characteristics (CLKSTP = 10b, CLKXP = 1)):</b> Updated table title. ....	<a href="#">149</a>
• <b>Table 5-78 (McBSP as SPI Master or Slave Switching Characteristics (CLKSTP = 11b, CLKXP = 1)):</b> Updated table title. ....	<a href="#">150</a>
• <b>Section 5.11.6 (Universal Serial Bus (USB) Controller):</b> Updated list of USB module features. ....	<a href="#">167</a>
• <b>Table 6-8 (Device Identification Registers):</b> Changed UID_UNIQUE from "0x0007 03C0" to "0x0007 03CC". ....	<a href="#">184</a>
• <b>Figure 6-4 (Windowed Watchdog):</b> Updated figure. ....	<a href="#">196</a>
• <b>Section 8.2 (Tools and Software):</b> Added "Models" section. ....	<a href="#">199</a>
• <b>Section 8.3 (Documentation Support):</b> Updated section. ....	<a href="#">201</a>

The datasheet number will be changing.

Device Family	Change From:	Change To:
TMS320F28374S - TMS320F28379S	SPRS880H	SPRS880I

These changes may be reviewed at the datasheet links provided.

<http://www.ti.com/product/TMS320F28374S>

#### 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:**

TMS320F28374SPTPS	TMS320F28375SPZPQ	TMS320F28376SPZPT	TMS320F28377SZWTQ
TMS320F28374SPTPT	TMS320F28375SPZPQR	TMS320F28376SZWTS	TMS320F28377SZWTS
TMS320F28374SPZPS	TMS320F28375SPZPS	TMS320F28376SZWTT	TMS320F28377SZWTT
TMS320F28374SPZPT	TMS320F28375SPZPT	TMS320F28377SPTPQ	TMS320F28379SPTPS
TMS320F28374SZWTS	TMS320F28375SZWTS	TMS320F28377SPTPS	TMS320F28379SPTPT
TMS320F28374SZWTT	TMS320F28375SZWTT	TMS320F28377SPTPT	TMS320F28379SPZPS
TMS320F28374SZWTR	TMS320F28376SPTPS	TMS320F28377SPZPQ	TMS320F28379SPZPT
TMS320F28375SPTPS	TMS320F28376SPTPT	TMS320F28377SPZPS	TMS320F28379SZWTS
TMS320F28375SPTPT	TMS320F28376SPZPS	TMS320F28377SPZPT	TMS320F28379SZWTT

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

<b>Location</b>	<b>E-Mail</b>
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>
Japan	<a href="mailto:PCNJapanContact@list.ti.com">PCNJapanContact@list.ti.com</a>