Notification Number: 202101217008 Notification Date: Feb 22, 2021

Title: Datasheet for ADS131M06

**Change Type:** 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.



ADS131M06

SBAS949A - FEBRUARY 2020 - REVISED FEBRUARY 2021

C	hanges from Revision * (February 2020) to Revision A (February 2021)	Page
•	Updated the numbering format for tables, figures, and cross-references throughout the document	1
•	Added gain of 128 to High impedance inputs bullet	1
•	Changed value of Low power consumption bullet from 5.0 mW to 4.9 mW	1
•	Added Protection relays and Power quality meters to Applications section	1
•	Changed WQFN package from preview to active on front page	1
•	Removed capacitor recommendation for REFIN pin in Pin Functions table	4
•	Corrected analog input pin numbering in Pin Functions table	4
•	Added thermal pad to pinout diagram	4
•	Added Differential input voltage range using external reference	7
•	Added long-term reference and gain error drift in WQFN package in Electrical Characteristics table	8
•	Added typical value for long term reference and gain error drift in WQFN package	8
•	Changed t <sub>su(SY)</sub> parameter description in <i>Timing Requirements</i> table	10
•	Changed SPI Timing Diagram and SYNC/RESET Timing Requirements figures	11
•	Added typical characteristics plots	13
•	Removed recommendation for decoupling capacitor when using internal reference	21
•	Changed Clocking and Power Modes section, added internal oscillator option	22
•	Changed description of modulator frequency and added $f_{MOD}$ equation in $\Delta\Sigma$ Modulator section	22
•	Changed Digital Filter section	22
•	Changed Digital Filter Implementation title and section	23
•	Updated description of the test signal derived from the internal reference	26
•	Changed communication cyclic redundancy check (CRC) seed value	29
•	Added DRDY transitions in Power-Up and Reset section	31
	Mayord Foot Startum Robertian to Review Europianal Madag agotion, and abanded values for we	it time
•	Moved Fast Startup Behavior section to Device Functional Modes section, and changed values for wa delays in text and figures	
	Added global-chop mode block diagram, global-chop mode conversion timing diagram, and Equation	0 33
	Changed Standby Mode section	
	Deleted comments about MOSI, MISO, slave, and master	
	Added description for new conversions when reading data in the <i>Data Ready</i> ( <i>DRDY</i> ) section	
	Added second paragraph to SPI Communication Frames section	
	Changed <i>Register Map</i> table	
	Changed description sentence for each register section.	
•	Added pullup resistor option for DRDY in the <i>Unused Inputs and Outputs</i> section	
	Changed root cause description in <i>Troubleshooting</i> section	
•	Changed discussion of burden resistor in Current Measurement Front-End section	
•	Added ADC energy metrology library software to Related Documents	

The datasheet number will be changing.		
Device Family	Change From:	Change To:
ADS131M06	SBAS949	SBAS949A

These changes may be reviewed at the datasheet links provided.

http://www.ti.com/product/ADS131M06

### **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:**

ADS131M06IPBS	ADS131M06IPBSR		
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For questions regarding this notice, e-mails can be sent to the contacts shown below or your local Field Sales Representative.

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