

Notification Number:	202101217007	Notification Date:	Feb 22, 2021
Title:	Datasheet for ADS131M08		
Customer Contact:	PCN Manager	Dept:	Quality Services
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.



ADS131M08

SBAS950B – OCTOBER 2019 – REVISED FEBRUARY 2021

Changes from Revision A (December 2019) to Revision B (February 2021)

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• Updated the numbering format for tables, figures, and cross-references throughout the document	1
• Added gain of 128 to <i>High impedance inputs</i> bullet.....	1
• Added <i>Protection relays</i> and <i>Power quality meters</i> to <i>Applications</i> section.....	1
• Changed <i>Applications</i> section	1
• Changed WQFN package from preview to active	1
• Removed capacitor recommendation for REFIN pin in <i>Pin Functions</i> table	4
• Corrected analog input pin numbering in <i>Pin Functions</i> 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 <i>Electrical Characteristics</i> table.....	8
• Changed $t_{su(SY)}$ parameter description in <i>Timing Requirements</i> table.....	10
• Changed <i>SPI Timing Diagram</i> and <i>SYNC/RESET Timing Requirements</i> figures.....	11
• Added typical characteristics plots.....	13
• Removed recommendation for decoupling capacitor when using internal reference.....	21
• Changed <i>Clocking and Power Modes</i> section.....	22
• Changed description of modulator frequency and added f_{MOD} equation in $\Delta\Sigma$ <i>Modulator</i> section.....	22
• Changed <i>Digital Filter</i> section.....	22
• Changed <i>Digital Filter Implementation</i> title and section	23
• Updated description of the test signal derived from the internal reference.....	26
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• Changed communication cyclic redundancy check (CRC) seed value.....	29
• Added DRDY transitions in <i>Power-Up and Reset</i> section.....	31
• Moved <i>Fast Startup Behavior</i> section to <i>Device Functional Modes</i> section, and changed values for wait time delays in text and figures.....	32
• Added global-chop mode block diagram, global-chop mode conversion timing diagram, and Equation 9	33
• Changed <i>Standby Mode</i> section	34
• Deleted comments about MOSI, MISO, slave, and master.....	37
• Added description for new conversions when reading data in the <i>Data Ready (DRDY)</i> section.....	37
• Added second paragraph to <i>SPI Communication Frames</i> section	38
• Changed <i>Register Map</i> table.....	47
• Changed description sentence for each register section.....	47
• Added pullup resistor option for DRDY in the <i>Unused Inputs and Outputs</i> section.....	89
• Changed root cause description in <i>Troubleshooting</i> section	95
• Added reference to TIDA-010037 design guide in <i>Typical Application</i> section.....	96
• Changed discussion of burden resistor in <i>Current Measurement Front-End</i> section	98
• Added <i>ADC energy metrology library</i> software to <i>Related Documents</i>	106

The datasheet number will be changing.

Device Family	Change From:	Change To:
ADS131M08	SBAS950A	SBAS950B

These changes may be reviewed at the datasheet links provided.

<http://www.ti.com/product/ADS131M08>

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:

ADS131M08IPBS	ADS131M08IPBSR		
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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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