

Notification Number:	20211110004	Notification Date:	November 19, 2021
Title:	Datasheet for ADS131B04-Q1		
Customer Contact:	Notification 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.



ADS131B04-Q1

SBASA31B – NOVEMBER 2020 – REVISED NOVEMBER 2021

Changes from January 6, 2021 to November 5, 2021 (from Revision A (January 2021) to Revision B (November 2021))

	Page
• Globally changed instances of legacy terminology to controller and peripheral where SPI is mentioned.....	1
• Added <i>DC e-metering</i> and <i>Energy storage systems (ESS)</i> to <i>Applications</i> section.....	1
• Changed numbering of analog inputs in <i>Description</i> column of <i>Pin Functions</i> table.....	3
• Changed footnote in <i>Absolute Maximum Ratings</i> table.....	4
• Added offset error long-term drift, gain error long-term drift, and oscillator frequency long-term drift parameters to <i>Electrical Characteristics</i> table.....	6
• Added MIN and MAX specifications for internal oscillator frequency accuracy parameter to <i>Electrical Characteristics</i> table.....	6
• Added <i>Gain Error Long-Term Drift</i> and <i>Oscillator Frequency Error vs Temperature</i> graphs to <i>Typical Characteristics</i> section.....	10
• Added information about the CRC seed value to the <i>Register Map CRC</i> section.....	22
• Added SPI frame diagrams to <i>SPI Communication Words</i> section.....	29
• Added information about CRC seed value and bits covered by the CRC within a frame to the <i>Communication Cyclic Redundancy Check (CRC)</i> section.....	30
• Added <i>SPI Timeout</i> section.....	30
• Changed bit field description for OSR[2:0] = 111b in the <i>CLOCK</i> register.....	37
• Added SYNC/RESET pin to <i>ADS131B04-Q1</i> in a <i>Typical Battery Management System Application</i> figure....	63

The datasheet number will be changing.

Device Family	Change From:	Change To:
ADS131B04-Q1	SBASA31A	SBASA31B

These changes may be reviewed at the datasheet links provided.

<http://www.ti.com/product/ADS131B04-Q1>

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:

ADS131B04QPWRQ1			
-----------------	--	--	--

For questions regarding this notice, e-mails can be sent to the regional 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 Change Management 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.