12500 TI Boulevard, MS 8640, Dallas, Texas 75243

Notification# 20200723004
Datasheet for ADS131A02, ADS131A04
Information Only

Date: July 24, 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 Change Management team (PCN_ww_admin_team@list.ti.com).

Sincerely,

Change Management 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
ADS131A02IPBS	null
ADS131A02IPBSR	null
ADS131A04IPBSR	null

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

Notification Number:	20200723004	Notification Date:	July 24, 2020
Title:	Datasheet for ADS131A02, ADS131A04		
Customer Contact:	Notification Manager	Dept:	Quality Services

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.

TEXAS INSTRUMENTS

ADS131A02, ADS131A04

SBAS590E – MARCH 2016 – REVISED JUNE 2020

Changes from Revision D (January 2018) to Revision E	Page
• Changed *Applications* section	1
• Changed pin diagrams to orient pin names	6
• Changed NC and XTAL2 pin descriptions to match *Unused Connections* section	7
• Deleted common-mode input voltage from *Recommended Operating Conditions* table	9
• Added reference to *Data Rate Settings* table in *Data Rate* section	28
• Changed *Sinc^3 Filter Settling* figure and description in *Digital Decimation Filter* section to show ADC conversion start and data availability	35
• Changed *Watchdog Timer* section for clarity	36
• Changed description of *Low-Power and High-Resolution Mode* and *Power-Up* sections for clarity	37
• Changed *RESET* section for clarity	37
• Changed *Device Word Length* and *Fixed versus Dynamic-Frame Mode* sections for clarity	38
• Added description of 16- and 24-bit data word formats to *Data Words* section	40
• Added *Communication Methods for Data Integrity Using Delta-Sigma Data Converters* application report link to *Hamming Code* section	42
• Changed *Cyclic Redundancy Check* section	43
• Changed *CRC with CRC_MODE = 1*, *CRC with CRC_MODE = 0*, and *CRC Using the WREGS Command* figures to clarify CRC modes	44
• Changed *Asynchronous Interrupt Mode* section	46
• Changed *Synchronous Master Mode* section	48
• Changed *Synchronous Slave Mode* section	50
• Added address location to description of RREG and 0000 0000 to device word in *Command Definitions* table	52
• Changed *STANDBY: Enter Standby Mode* section for clarity	54
• Changed *ADCx registers* to *ADC_ENA register* in *WAKEUP: Exit STANDBY Mode* section	55
• Changed RREGS to RREG in *RREG Command Status Response (Single Register Read)* figure caption	56
• Changed first command status response from *001a aaaa nnnn nnnn* to *011a aaaa nnnn nnnn* in *RREGS: Read Multiple Registers* section	56
• Changed F_DRDY description in *STAT_1: Status 1 Register* section	61
• Added *All Devices Configured in Synchronous Slave Mode* to include discussion of synchronization to a master clock	76
• Changed *Bipolar Analog Power Supply* to *Unipolar Analog Power Supply with Negative Charge Pump Enabled* figures to correct power supply connections	84

The datasheet number will be changing.

Device Family	Change From:	Change To:
ADS131A02, ADS131A04	SBAS590D	SBAS590E

These changes may be reviewed at the datasheet links provided.
http://www.ti.com/product/**ADS131A02**

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:

ADS131A02IPBS	ADS131A02IPBSR	ADS131A04IPBS	ADS131A04IPBSR

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.