12500 TI Boulevard, MS 8640, Dallas, Texas 75243

Notification# 20170118001
Datasheet for ADS1113, ADS1114, ADS1115
Information Only

Date: February 08, 2017
To: PREMIER FARNELL PCN

Dear Customer:

This is an information-only announcement of a change to 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 PCN Manager (PCN_ww_admin_team@list.ti.com).

Sincerely,

PCN 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
ADS1113IDGST	null
ADS1114IDGST	null
ADS1114IRUGT	null
ADS1115IDGSR	null
ADS1115IDGST	null

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

PCN Number:	20170118001	PCN Date:	Feb. 8, 2017
Title:	Datasheet for ADS1113, ADS1114, ADS1115		
Customer Contact:	PCN Manager	Dept:	Quality Services

Change Type:

☐	Assembly Site	☐	Design	☐	Wafer Bump Site
☐	Assembly Process	☒	Data Sheet	☐	Wafer Bump Material
☐	Assembly Materials	☐	Part number change	☐	Wafer Bump Process
☐	Mechanical Specification	☐	Test Site	☐	Wafer Fab Site
☐	Packing/Shipping/Labeling	☐	Test Process	☐	Wafer Fab Materials
				☐	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.

TEXAS INSTRUMENTS

ADS1113, ADS1114, ADS1115

SBAS444C – MAY 2009 – REVISED DECEMBER 2016

Changes from Revision B (October 2009) to Revision C **Page**

- Added *Device Information*, *ESD Ratings*, *Recommended Operating Conditions*, and *Thermal Information* tables, and *Parameter Measurement Information*, *Detailed Description*, *Application and Implementation*, *Power Supply Recommendations*, *Layout*, *Device and Documentation Support*, and *Mechanical, Packaging, and Orderable Information* sections 1
- Changed *Title*, and *Description*, *Features*, and *Applications* sections for clarity 1
- Deleted temperature range text from *Description* section and moved to *Features* section 1
- Changed *Product Family* table title to *Device Comparison Table* and deleted *Package Designator* column 4
- Changed *Pin Functions* table for clarity 4
- Changed *Power-supply voltage* max value from 5.5 V to 7 V in *Absolute Maximum Ratings* table 5
- Changed *Analog input voltage* min value from –0.3 V to GND – 0.3 V in *Absolute Maximum Ratings* table 5
- Changed *Digital input voltage* min value from –0.5 V to GND – 0.3 V in *Absolute Maximum Ratings* table 5
- Changed *Digital input voltage* max value from 5.5 V to VDD + 0.3 V in *Absolute Maximum Ratings* table 5
- Deleted *Analog input current* rows in *Absolute Maximum Ratings* table 5
- Added *Input current* row in *Absolute Maximum Ratings* table 5
- Added *Operating temperature* range of –40°C to +125°C back into *Absolute Maximum Ratings* table 5
- Added minimum specification of –40°C for T_J in *Absolute Maximum Ratings* table 5
- Changed *Electrical Characteristics* table conditions line for clarity 6
- Changed all instances of "FS" to "FSR" 6
- Deleted FSR from *Electrical Characteristics* and moved to *Recommended Operating Conditions* table 6
- Added values from Table 2 to *Differential input impedance* parameter in *Electrical Characteristics* table 6
- Changed *Output noise* parameter link from "see *Typical Characteristics*" to "see *Noise Performance* section" in *Electrical Characteristics* table 6
- Changed *Offset error* empty min value to –3, and max value from ±3 to 3 for clarity in *Electrical Characteristics* table 6

- Changed V_{IH} parameter max value from 5.5 V to VDD in *Electrical Characteristics* table 6
- Changed V_{IL} parameter min value from GND – 0.5 V to GND in *Electrical Characteristics* table 6
- Changed *Input leakage current* parameters from two rows to one row, changed test conditions from V_{IH} = 5.5V and V_{IL} = GND to GND < V_{DIG} < VDD, and changed min value from 10 µA to –10 µA in *Electrical Characteristics* table 6
- Changed text in note 1 of *Electrical Characteristics* table from "In no event should more than VDD + 0.3 V be applied to this device" to "No more than VDD + 0.3 V or 5.5 V (whichever is smaller) must be applied to this device. See Table 3 for more information." 6
- Deleted *Power-supply voltage* parameter from *Electrical Characteristics* and moved to *Recommended Operating Conditions* table 7
- Deleted *Specified temperature* parameter from *Electrical Characteristics* and moved to *Recommended Operating Conditions* table 7
- Deleted *Storage temperature* parameter from *Electrical Characteristics* and moved to *Absolute Maximum Ratings* table 7
- Added condition statement in *Timing Requirements: I^2C* table 7
- Added note 1 to *Timing Requirements* table 7
- Changed Figure 22; deleted "Gain = 2/3, 1, 2, 4, 8, or 16" 13
- Added *Functional Block Diagrams* for ADS1114 and ADS1113 13
- Changed *Analog Inputs* section to provide LSB size information instead of PGA setting 15
- Changed *Full-Scale Input* section title to *Full-Scale Range (FSR) and LSB Size*, and updated section for clarity 16
- Added *Voltage Reference* and *Oscillator* sections 16
- Changed *Comparator* section title to *Digital Comparator*, and updated section for clarity. 16
- Changed *Conversion Ready Pin* section for clarity 17
- Changed *Register Map* section for clarity 25
- Changed *Application Information* section for clarity 29
- Added *Input Protection* section 30
- Added *Unused Inputs and Outputs* section 30
- Changed *Aliasing* section title to *Analog Input Filtering* and updated section for clarity 31
- Added *Typical Application* section 34

The datasheet number will be changing.

Device Family	Change From:	Change To:
ADS1113, ADS1114, ADS1115	SBAS444B	**SBAS444C**

These changes may be reviewed at the datasheet links provided.
http://www.ti.com/product/ADS1113

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:

ADS1113IDGSR	ADS1113IDGST	ADS1113IRUGR	ADS1113IRUGT
ADS1114IDGSR	ADS1114IDGST	ADS1114IRUGR	ADS1114IRUGT
ADS1115IDGSR	ADS1115IDGST	ADS1115IRUGR	ADS1115IRUGT

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
Japan	PCNJapanContact@list.ti.com