

PCN Number:	20170118001	PCN Date:	Feb. 8, 2017
Title:	Datasheet for ADS1113, ADS1114, ADS1115		
Customer Contact:	PCN Manager	Dept:	Quality Services
Change Type:			
<input type="checkbox"/>	Assembly Site	<input type="checkbox"/>	Design
<input type="checkbox"/>	Assembly Process	<input checked="" type="checkbox"/>	Data Sheet
<input type="checkbox"/>	Assembly Materials	<input type="checkbox"/>	Part number change
<input type="checkbox"/>	Mechanical Specification	<input type="checkbox"/>	Test Site
<input type="checkbox"/>	Packing/Shipping/Labeling	<input type="checkbox"/>	Test Process
<input type="checkbox"/>		<input type="checkbox"/>	Wafer Bump Site
<input type="checkbox"/>		<input type="checkbox"/>	Wafer Bump Material
<input type="checkbox"/>		<input type="checkbox"/>	Wafer Bump Process
<input type="checkbox"/>		<input type="checkbox"/>	Wafer Fab Site
<input type="checkbox"/>		<input type="checkbox"/>	Wafer Fab Materials
<input type="checkbox"/>		<input type="checkbox"/>	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.



ADS1113, ADS1114, ADS1115
SBAS444C – MAY 2009 – REVISED DECEMBER 2016

Changes from Revision B (October 2009) to Revision C

Page

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