

PCN Number:	20190920002	PCN Date:	Sept. 27, 2019
Title:	Datasheet for ADC3221, ADC3222, ADC3223, ADC3224		
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.



ADC3221, ADC3222, ADC3223, ADC3224

SBAS672D – JULY 2014 – REVISED SEPTEMBER 2019

Changes from Revision C (July 2019) to Revision D

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• Deleted Graphs: Histogram, Integral Nonlinearity, and Differential Nonlinearity	22
• Deleted Graphs: Histogram, Integral Nonlinearity, and Differential Nonlinearity	27
• Deleted Graphs: Histogram, Integral Nonlinearity, and Differential Nonlinearity	32
• Deleted Graphs: Histogram, Integral Nonlinearity, and Differential Nonlinearity	37

Changes from Revision B (March 2016) to Revision C

Page

• Added text to the <i>Description</i> : Optionally, a one-wire serial LVDS interface is available.	1
• Changed the description of pin AVDD, DVDD, GND, and PDN pins in the <i>Pin Functions</i> table	5
• Changed the condition statement for <i>Electrical Characteristics: General</i>	7
• Moved the location of <i>Electrical Characteristics: General</i>	7
• Changed the parameter description of $E_{G(REF)}$ in <i>Electrical Characteristics: General</i>	7
• Deleted $E_{G(CHAN)}$ from <i>Electrical Characteristics: General</i>	7
• Changed the parameter description of $\alpha_{(EGCHAN)}$ in <i>Electrical Characteristics: General</i>	7
• Changed the condition statement for <i>Electrical Characteristics: ADC3221, ADC3222</i>	8
• Changed ADC clock frequency (ADC3241) From: MAX = 125 MSPS To: MAX = 25 MSPS in <i>Electrical Characteristics: ADC3221, ADC3222</i>	8
• Changed ADC clock frequency (ADC3242) From: MAX = 125 MSPS To: MAX = 50 MSPS in <i>Electrical Characteristics: ADC3221, ADC3222</i>	8
• Changed the condition statement for <i>Electrical Characteristics: ADC3223, ADC3224</i>	8

- Changed the condition statement for *Electrical Characteristics: ADC3221* 9
- Changed the condition statement for *Electrical Characteristics: ADC3222* 11
- Changed the condition statement for *Electrical Characteristics: ADC3223* 13
- Changed the condition statement for *Electrical Characteristics: ADC3224* 15
- Added Differential swing to *DIGITAL INPUTS (SYSREFP, SYSREFM)* 17
- Deleted V_{IH} and V_{IL} from *DIGITAL INPUTS (SYSREFP, SYSREFM)* 17
- added table note: SYSREF is internally biased to 0.9 V.to *Digital Characteristics* 17
- Added Graphs: Histogram, Integral Nonlinearity, and Differential Nonlinearity 22
- Added Graphs: Histogram, Integral Nonlinearity, and Differential Nonlinearity 27
- Added Graphs: Histogram, Integral Nonlinearity, and Differential Nonlinearity 32
- Added Graphs: Histogram, Integral Nonlinearity, and Differential Nonlinearity 37
- Changed the *Overview* section 43
- Added *Using the SYSREF Input* section 46
- Changed the *Register Initialization through SPI* section 53
- Changed the *Detailed Design Procedure* section 66

The datasheet number will be changing.

Device Family	Change From:	Change To:
ADC3221, ADC3222, ADC3223, ADC3224	SBAS672B	SBAS672D

These changes may be reviewed at the datasheet links provided.

<http://www.ti.com/product/ADC3221>

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:

ADC3221IRGZR	ADC3221IRGZT	ADC3222IRGZR	ADC3222IRGZT
ADC3223IRGZR	ADC3223IRGZT	ADC3224IRGZR	ADC3224IRGZT

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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