

<b>PCN Number:</b>	<b>20160419000</b>	<b>PCN Date:</b>	4/25/2016
<b>Title:</b>	Datasheet for ADS1246, ADS1247, ADS1248		
<b>Customer Contact:</b>	<a href="#">PCN Manager</a>	<b>Dept:</b>	Quality Services
<b>Change Type:</b>			
<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 etc.

The product datasheet(s) is being updated as summarized below.

The following change history provides further details.



**ADS1246, ADS1247, ADS1248**

SBAS426H – AUGUST 2008 – REVISED MARCH 2016

#### Changes from Revision G (October 2011) to Revision H

Page

• Added ESD Ratings table, Feature Description section, Device Functional Modes, Application and Implementation section, Power Supply Recommendations section, Layout section, Device and Documentation Support section, and Mechanical, Packaging, and Orderable Information section .....	1
• Updated Features and Description sections to include use in applications other than temperature measurement .....	1
• Edited Device Comparison Table to include ADS1146, ADS1147, and ADS1148; changed title, deleted footnote .....	4
• Merged all Pin Functions into one table, changed IOUT1 and IOUT2 to IEXC1 and IEXC2 to match figures .....	6
• Changed compliance voltage for excitation current sources in Electrical Characteristics, now refers to Figure 41 and Figure 42; changed initial error and initial mismatch to absolute error and absolute mismatch .....	9
• Re-ordered elements in Timing Requirements tables, changed timing references to t <sub>CLK</sub> .....	11
• Changed order of Typical Characteristics curves to match order in Electrical Characteristics table .....	13
• Added cross-reference for Equation 1 in Noise Performance section .....	21
• Corrected values in Table 2 .....	22
• Modified Low-Noise PGA section to add more detail; added Table 7; added PGA Common-Mode Voltage Requirements and PGA Common-Mode Voltage Calculation Example sections .....	26
• Added f <sub>CLK</sub> /f <sub>MOD</sub> column to Table 9 .....	30
• Added cross-reference for Equation 15 to Power-Supply Monitor section .....	35
• Added cross-reference for Equation 16 to External Voltage Reference Monitor section .....	35
• Added Device Functional Modes section .....	36
• Corrected values in Table 15 to remove extra 0 in 800000h .....	40
• Added text to Chip Select section to say that SCLK will force $\overline{\text{DRDY}}$ high, even with $\overline{\text{CS}}$ high .....	41
• Added text to Data Output and Data Ready section to say that stop read data continuous mode is not compatible with DRDY MODE set to 1 .....	42
• Modified Figure 74 and Figure 75 to better show DIN transitions with respect to SCLK; replaced Figure 76 to better	

show full command and DRDY/ $\overline{\text{DOUT}}$ falling with NOP.....	43
• Added more information to <i>Data Format</i> section; added <a href="#">Figure 77</a> .....	44
• Added cross-reference for <a href="#">Figure 78</a> to <i>Commands</i> section.....	45
• Modified <a href="#">Figure 78</a> to include $\overline{\text{CS}}$ status through SLEEP and WAKEUP command.....	46
• Updated <a href="#">Figure 79</a> and <a href="#">Figure 80</a> to show start of command execution .....	46
• Added cross-reference for <a href="#">Figure 83</a> to <i>Commands</i> section.....	47
• Removed figure for <i>SDATAC</i> (Stop Read Data Continuous) command .....	47
• Updated <a href="#">Figure 85</a> to show MUX1 as the start of the data byte for the given command and register location.....	48
• Updated <a href="#">Figure 86</a> to show start of calibration timing .....	49
• Updated <i>Register Maps</i> section to new format .....	50
• Updated <i>Application Information</i> section. Included new typical applications for <i>Ratiometric 3-Wire RTD Measurement System</i> and <i>K-Type Thermocouple Measurement (-200°C to +1250°C) with Cold-Junction Compensation</i> .....	70
• Updated <a href="#">Figure 112</a> and <a href="#">Figure 113</a> to better show timing information .....	74
• Removed Hardware-Compensated 3-Wire RTD Measurement application section .....	76

The datasheet number will be changing.

Device Family	Change From:	Change To:
ADS1246, ADS1247, ADS1248	SBAS426G	<b>SBAS426H</b>

These changes may be reviewed at the datasheet links provided.

<http://www.ti.com/product/ADS1248>

**Reason for Change:**

To more 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:**

ADS1246IPW	ADS1246IPWR	ADS1247IPW	ADS1247IPWR
ADS1248IPW	ADS1248IPWR		

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