



12500 TI Boulevard, MS 8640, Dallas, Texas 75243

**Notification# 20160419000
Datasheet for ADS1246, ADS1247, ADS1248
Information Only**

Date: 4/25/2016
To: Newark/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
ADS1247IPW	null
ADS1246IPW	null
ADS1248IPW	null
ADS1248IPWR	null

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

PCN Number:	20160419000	PCN Date:	4/25/2016
Title:	Datasheet for ADS1246, ADS1247, ADS1248		
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 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 _{CLK}	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 _{CLK} /f _{MOD} 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 Figure 77	44
• Added cross-reference for Figure 78 to <i>Commands</i> section.....	45
• Modified Figure 78 to include $\overline{\text{CS}}$ status through SLEEP and WAKEUP command.....	46
• Updated Figure 79 and Figure 80 to show start of command execution	46
• Added cross-reference for Figure 83 to <i>Commands</i> section.....	47
• Removed figure for <i>SDATAC</i> (Stop Read Data Continuous) command	47
• Updated Figure 85 to show MUX1 as the start of the data byte for the given command and register location.....	48
• Updated Figure 86 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 Figure 112 and Figure 113 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	SBAS426H

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		

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