

12500 TI Boulevard, MS 8640, Dallas, Texas 75243

PCN# 20150204000 Datasheet update for ADS7040/41/42/43/44 Information Only Datasheet

Date: 2/23/2015

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 PCN 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

20150204000 Information Only Datasheet 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 ADS7042IDCUT

CUSTOMER PART NUMBER

null

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

PCN Number:	20150204000)			PCN Date:	02/23/2015
Title: Datasheet up	date for ADS70)40/41/	42/43/44			
Customer Contact:	PCN Manager		Dept:	Qualit	y Services	
Change Type:						
Assembly Site		Desig	ın		Wafer Bum	p Site
Assembly Process	\geq	Data	Sheet		Wafer Bum	p Material
Assembly Material		Part r	number change		Wafer Bum	
Mechanical Specification		Test !			Wafer Fab	
Packing/Shipping/	'Labeling	Test	Process		Wafer Fab	
					Wafer Fab	Process
		PCI	N Details			
Description of Chang						
Texas Instruments Inco	orporated is anr	nouncin	ig an informatior	n only i	notification.	
The product datasheet	(s) is being und	ated as	s summarized be	low.		
····o product datas.	(c) ic comig apa					
The following change h	istory provides	further	details.			
					Jia Te	XAS
					ÎN	XAS STRUMENTS
ADS7040	SED EEDDUADY 0045					
SBAS676B - NOVEMBER 2014-REVIS	SED FEBRUARY 2015					www.ti.com
4 Revision History						
NOTE: Page numbers for prev	ious revisions may di	ffer from p	page numbers in the c	urrent ve	rsion.	
Changes from Revision A (N	ovember 2014) to R	evision B	.			Page
Changed Wide Operating F	Range Features bulle	t: change	d the value of AVDD fr	om 18 V	to 1 65 V	1
Changed the wide analog i	-	_				
Changed ESD Ratings tabl					•	
Changed AVDD parameter						
Changed AVDD range in co						
 Changed INL and DNL part 						
 Changed maximum through 	hput rate parameter t	est condit	ions in <i>Electrical Char</i>	acteristic	s table	5
 Changed AVDD parameter 	minimum specification	on in <i>Elec</i>	trical Characteristics ta	able		5
Changed conditions for <i>Timing Characteristics</i> table: changed range of AVDD and added C _{LOAD} condition						
Changed t _{D_CKDO} parameter in <i>Timing Characteristics</i> table						
Added f _{SCLK} minimum specification to <i>Timing Characteristics</i> table						
 Changed titles of Figure 26 	Changed titles of Figure 26 to Figure 30				10	
 Changed Reference sub-se 	ection in <i>Feature Des</i>	cription se	ection			14
 Changed range of second to 	f _{CLK-CAL} parameter de	scription i	n Table 2			19
 Changed range of second to 	f _{CLK-CAL} parameter de	scription i	n Table 3			20
 Changed Reference Circuit 						
 Added last two sentences t 	o AVDD and DVDD :	Supply Re	ecommendations section	on		29



4 Revision History

NOTE: Page numbers for previous revisions may differ from page numbers in the current version.

С	Changes from Revision A (November 2014) to Revision B		
	Changed Wide Operating Range Features bullet: changed the value of AVDD from 1.8 V to 1.65 V	1	
•	Changed the wide analog input voltage range value to 1.65 V in first paragraph of Description section	1	
•	Changed ESD Ratings table to latest standards	4	
•	Changed AVDD parameter minimum specification in Recommended Operating Conditions table to 1.65 V	4	
•	Changed AVDD range in conditions of Electrical Characteristics table	5	
•	Changed INL and DNL parameter test conditions in Electrical Characteristics table	5	
•	Changed E _O parameter calibrated test conditions in <i>Electrical Characteristics</i> table	5	
•	Changed maximum throughput rate parameter test conditions in Electrical Characteristics table	5	
•	Changed AVDD parameter minimum specification in Electrical Characteristics table	5	
•	Changed conditions for Timing Characteristics table: changed range of AVDD and added C _{LOAD} condition	6	
•	Changed t _{D_CKDO} parameter in <i>Timing Characteristics</i> table	6	
•	Added f _{SCLK} minimum specification to <i>Timing Characteristics</i> table	6	
•	Changed titles of Figure 26 to Figure 30	10	
•	Changed Reference sub-section in Feature Description section	14	
•	Changed range of second f _{CLK-CAL} parameter description in Table 2	19	
•	Changed range of second f _{CLK-CAL} parameter description in Table 3	20	
•	Changed Reference Circuit section in Application Information	23	
•	Added last two sentences to AVDD and DVDD Supply Recommendations section	29	



ADS7042

SBAS608B - JUNE 2014-REVISED FEBRUARY 2015

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С	Changes from Revision A (August 2014) to Revision B		
	Added TI Design	1	
•	Changed Wide Operating Range Features bullet: changed the value of AVDD from 1.8 V to 1.65 V	1	
•	Changed the wide analog input voltage range value to 1.65 V in first paragraph of Description section	1	
•	Changed ESD Ratings to latest standards	4	
•	Changed AVDD parameter minimum specification in Recommended Operating Conditions table to 1.65 V	4	
•	Changed E _O parameter uncalibrated test conditions in <i>Electrical Characteristics</i> table	5	
•	Changed Maximum throughput rate parameter test conditions in Electrical Characteristics table	5	
•	Changed AVDD parameter minimum specification in Electrical Characteristics table	6	
•	Changed conditions for Timing Characteristics table: changed range of AVDD and added CLOAD condition	7	
•	Changed t D CKDO specification in Timing Characteristics table	7	
•	Added f _{SCLK} minimum specification to <i>Timing Characteristics</i> table		
•	Changed titles of Figure 26 to Figure 29	11	
•	Changed Reference section in Feature Description		
	Changed range of second f _{CLK-CAL} parameter description in Table 2	20	
•	Changed range of second f _{CLK-CAL} parameter description in Table 3	21	
•	Changed Reference Circuit section in Application Information	24	
	Added last two sentences to AVDD and DVDD Supply Recommendations section	30	



ADS7043

SBAS681C -NOVEMBER 2014-REVISED FEBRUARY 2015

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CI	Changes from Revision B (December 2014) to Revision C Page			
	Changed Wide Operating Range Features bullet: changed the value of AVDD from 1.8 V to 1.65 V	1		
•	Changed the wide analog input voltage range value to ±0.825 V in first paragraph of Description section	1		
•	Changed AVDD parameter minimum specification in Recommended Operating Conditions table	4		
•	Changed E _O parameter uncalibrated test conditions in Electrical Characteristics table	5		
•	Changed Maximum throughput rate parameter test conditions in Electrical Characteristics table	5		
•	Changed AVDD parameter minimum specification in Electrical Characteristics table	6		
•	Changed conditions for Timing Characteristics table: changed range of AVDD and added C _{LOAD} condition	6		
•	Changed t _{D_CKDO} specification in <i>Timing Characteristics</i> table	6		
•	Added f _{SCLK} minimum specification to <i>Timing Characteristics</i> table	6		
•	Changed titles of Figure 26 to Figure 30	11		
•	Changed Reference sub-section in Feature Description section	15		
•	Changed AVDD range in description of f _{CLK-CAL} parameter in Table 2	20		
•	Changed AVDD range in description of f _{CLK-CAL} parameter in Table 3			
•	Changed Reference Circuit section in Application Information	24		
•	Added last two sentences to AVDD and DVDD Supply Recommendations section			



ADS7044

SBAS682C - NOVEMBER 2014-REVISED FEBRUARY 2015

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CI	Changes from Revision B (December 2014) to Revision C Page				
	Changed Wide Operating Range Features bullet: changed the value of AVDD from 1.8 V to 1.65 V	1			
•	Changed the wide analog input voltage range value to ±1.65 V in first paragraph of Description section	1			
•	Changed AVDD parameter minimum specification in Recommended Operating Conditions table	4			
•	Changed E _O parameter uncalibrated test conditions in <i>Electrical Characteristics</i> table	5			
•	Changed Maximum throughput rate parameter test conditions in Electrical Characteristics table	5			
•	Changed AVDD parameter minimum specification in Electrical Characteristics table	6			
•	Changed conditions for Timing Characteristics table: changed range of AVDD and added C _{LOAD} condition	6			
•	Changed t _{D_CKDO} specification in <i>Timing Characteristics</i> table	6			
•	Added f _{SCLK} minimum specification to <i>Timing Characteristics</i> table	6			
•	Changed titles of Figure 26 to Figure 30	11			
•	Changed Reference sub-section in Feature Description section	15			
•	Changed AVDD range in description of f _{CLK-CAL} parameter in Table 2	20			
	Changed AVDD range in description of f _{CLK-CAL} parameter in Table 3	21			
•	Changed Reference Circuit section in Application Information	24			
•	Added last two sentences to AVDD and DVDD Supply Recommendations section	28			
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The datasheet number will be changing.

Device Family	Change From:	Change To:
ADS7040	SBAS676A	SBAS676B
ADS7041	SBAS675A	SBAS675B
ADS7042	SBAS608A	SBAS608B
ADS7043	SBAS681B	SBAS681C
ADS7044	SBAS682B	SBAS682C

These changes may be reviewed at the datasheet links provided.

http://www.ti.com/product/ADS7040

http://www.ti.com/product/ADS7041

http://www.ti.com/product/ADS7042

http://www.ti.com/product/ADS7043

http://www.ti.com/product/ADS7044

Reason for Change:

To more accurately reflect device characteristics.

Anticipated impact on Fit, Form, Function, Quality or Reliability (positive / negative):

Electrical specification performance changes as indicated above.

Changes to product identification resulting from this PCN:

None.

Product Affected:

ADS7040IDCUR	ADS7041IDCUT	ADS7042IRUGR	ADS7044IDCUR	
ADS7040IDCUT	ADS7041IRUGR	ADS7043IDCUR	ADS7044IDCUT	
ADS7040IRUGR	ADS7042IDCUR	ADS7043IDCUT	ADS7044IRUGR	
ADS7041IDCUR	ADS7042IDCUT	ADS7043IRUGR		

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