

12500 TI Boulevard, MS 8640, Dallas, Texas 75243

## Notification# 20180809000 Datasheet for ADS7950 - ADS7961 Information Only

Date:August 13, 2018To:TOKYO ELECTRON DEVICE (DSTR) PCN

Dear Customer:

This is an information-only announcement of a change to the datasheet for 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 (<u>PCN ww admin team@list.ti.com</u>).

Sincerely,

PCN Team SC Business Services

## **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
ADS7951SRGER	null
ADS7952SBRHBR	null
ADS7958SDBT	null
ADS7961SDBT	null
ADS7956SDBT	null
ADS7953SBDBTR	null

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

PC	CN	Number:	20180809	000	PCN Date:	Α	ugu	ist 13, 1	2018	
Tit	Title: Datasheet for ADS7950-ADS7961									
Cu	ıst	tomer Contact:	PCN Manag	er			De	pt:	Quality Service	s
Ch	a	nge Type:								
		Assembly Site			Design			Wafer	- Bump Site	
		Assembly Process		$\boxtimes$	Data Sheet			Wafer	- Bump Material	
		Assembly Material	S		Part number change			Wafer	Bump Process	
	_	Mechanical Specifi			Test Site				- Fab Site	
		Packing/Shipping/	Labeling		Test Process			Wafer	Fab Materials	
								Wafer	Fab Process	
				N	otification Details					
De	eso	cription of Chang	je:							
			•		ouncing an information of		y nc	otificatio	on.	
Th	e	product datasheet	(s) is being ເ	lpd	ated as summarized below	w.				
Th	e i	following change h	istory provid	les	further details.					
		Truc			ADS7950, ADS7951, AL	DST	7952	ADS79	53 ADS7954 ADS7	7955
	ų	Texas Instruments			AD\$7956, AD\$7957, AD	DST	7958	ADS79	59, ADS7960, ADS7	7961
	_						S	LAS605C -	JUNE 2008-REVISED JULY	/ 2018
C	ha	nges from Revision B	(July 2015) to F	Revis	ion C					Page
•	(	Changed 0 to 2.5 V and	0 to 5 V to 0 to	VREF	and 0 to 2 x V <sub>REF</sub> in Input Range	Fea	ature	s bullet .		1
		and the second se		1000						
•	(	Changed Optical Line Ca	ard Monitoring a	nd M	lulti-Channel, General-Purpose S	igna	al Mo	onitoring A	Applications bullets	1
•	(	Changed (0 V to 2.5 V a	nd 0 V to 5 V) to	001	/ to V <sub>REF</sub> and 0 V to 2 × V <sub>REF</sub> ) in I	Des	cript	ion sectio	n	1
	[	Deleted Companion Prod	ducts table							5
•	(	Changed RGE to RHB for	or two 32-pin VC	FN	oin diagrams					5
•	1	Added 30-pin DBT packa	age							5
•							6			
•	Added active low to definition of CS pin in Pin Functions: TSSOP Packages table									
Changed pin name and description of Alarm pin in Pin Functions: TSSOP Packages table										
	• Added settings to description of Range pin in Pin Functions: TSSOP Packages table: added (1) to high and (0) to low 7									
•	Added active low to description of CS pin in Pin Functions: VQFN Packages table									
•	Changed pin name and description of Alarm pin in Pin Functions: VQFN Packages table									
•					cept supply pins row from ±10 m/					10
•	(	Changed VBD = 1.7 V to	5.25 V to VBD	= 1.1	V to +VA in condition statement	t				12
•	(	Changed minimum spec	ification from -1	LSB	to -0.99 LSB in first row of Diffe	rent	tial lii	nearity pa	arameter	12
	1	Added input to Reference	e input resistand	e pa	rameter name					13
•	(	Changed maximum spec	ification from Fl	CH	ex to 4092 LSB in Alarm Setting	para	amet	ers		13
•	(	Changed unit from Numl	pers to Conversi	ion in	Invalid conversions after power	up	or rea	set param	neter	13
•	Changed VBD = 1.7 V to 5.25 V to VBD = 1.7 V to +VA in condition statement				14					

		14 11 11 11 11 11 11 11 11 11 11 11 11 1					
•	Added input to Reference input resistance parameter name						
•	Changed maximum specification from FFC Hex to 4092 LSB in Alarm Setting parameters						
•	Changed VBD = 1.7 V to 5.25 V to VBD = 1.7 V to +VA in condition statement						
	Changed maximum specification from FF Hex to 255 LSB in Alarm Setting parameters						
	Changed maximum specification from Pr Piex to 255 LSB in Alarm Setting parameters						
	Changed REF and GND pins to REFP and REFM pins in the Reference section						
	Added Example Manual M	Mode Timing Diagram figure	e and corresponding text to Ope	erating in Manual Mode section	33		
•	Added Example Auto-1 M	lode Timing Diagram figure	and corresponding text to the	Operating in Auto-1 Mode	25		
•	Added Example Auto-2 M	lode Timing Diagram figure	and corresponding text to the	Operating in Auto-2 Mode			
	Changed binary code from	m 0001 1111 1111 to 0011	1111 1111 in Full scale row of	Ideal Input Voltages for 10-Bit			
					41		
•			s for 8-Bit Devices and Digital C	Output Codes for 8-Bit Devices	42		
•	Changed Recommended	Layout figure title to Recon	nmended Layout for the TSSOF	Packaged Device	52		
•	Added Recommended La	yout for the VQFN Package	ed Device figure		53		
	datasheet number v	will be changing.					
De	evice Family		Change From:	Change To:			
AD	S7950-ADS7961		SLAS605B	SLAS605C			
The	se changes may be	reviewed at the datas	sheet links provided.				
<u>htt</u>	p://www.ti.com/prod	duct/ADS7950					
Rea	ason for Change:						
Тоа	accurately reflect dev	vice characteristics.					
Ant	ticipated impact or	n Fit, Form, Functio	n, Quality or Reliabili	ty (positive / negative)	):		
	anticipated impact. T he actual device.	This is a specification	change announcement	only. There are no change	es		
Cha	anges to product ic	lentification resulti	ing from this PCN:				
Nor	ne.						
Pro	duct Affected:						
AD	S7950SBDBT	ADS7952SBDBT	ADS7954SDBT	ADS7958SRGER			
AD	S7950SBDBTG4	ADS7952SBDBTG4	ADS7954SDBTR	ADS7958SRGET			
AD	S7950SBDBTR	ADS7952SBDBTR	ADS7954SRGER	ADS7959SDBT			
AD	S7950SBRGER	ADS7952SBRHBR	ADS7954SRGET	ADS7959SDBTG4			
AD	S7950SBRGET	ADS7952SBRHBT	ADS7955SDBT	ADS7959SDBTR			
AD	S7950SDBT	ADS7952SDBT	ADS7955SDBTG4	ADS7959SRGER			
AD	S7950SDBTG4	ADS7952SDBTG4	ADS7955SDBTR	ADS7959SRGET			
	S7950SDBTR	ADS7952SDBTR	ADS7955SRGER	ADS7960SDBT			
	S7950SDBTRG4	ADS7952SRHBR	ADS7955SRGET	ADS7960SDBTG4			
	S7950SRGER	ADS7952SRHBR	ADS7956SDBT	ADS7960SDBTR			
	S7950SRGET	ADS7953SBDBT	ADS7956SDBTR	ADS7960SRHBR			
	S7951SBDBT	ADS7953SBDBTG4	ADS7956SRHBR	ADS7960SRHBT			
	OS7951SBDBTG4	ADS7953SBDBTR	ADS7956SRHBT	ADS7961SDBT			
	S7951SBDBTR	ADS7953SBRHBR	ADS7957SDBT	ADS7961SDBTG4			
	S7951SBRGER	ADS7953SBRHBT	ADS7957SDBTR	ADS7961SDBTR			
	S7951SBRGET	ADS7953SDBT	ADS7957SRHBR	ADS7961SDBTRG4			
AD	S7951SDBT	ADS7953SDBTG4	ADS7957SRHBT	ADS7961SRHBR			
AD	S7951SDBTG4	ADS7953SDBTR	ADS7958SDBT	ADS7961SRHBT			

ADS7951SDBTR	ADS7953SRHBR	ADS7958SDBTG4	
ADS7951SRGER	ADS7953SRHBT	ADS7958SDBTR	

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