

12500 TI Boulevard, MS 8640, Dallas, Texas 75243

Notification# 20180809000 Datasheet for ADS7950 - ADS7961 Information Only

Date: August 13, 2018

To: PREMIER FARNELL 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 (PCN www 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
ADS7953SBDBT	null
ADS7953SBRHBT	null
ADS7956SDBT	null
ADS7957SDBT	null
ADS7950SBDBT	null

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

PCN Number: 20180809000				PCN Date:	·	∖ugu	st 13, 2	2018			
Tit	le:	Datasheet fo	r ADS	7950-	AD:	S7961					
Customer Contact: PCN Manager					De	pt:	Quality Services				
Cha	ange	Type:									
	Asse	embly Site				Design				Wafer	Bump Site
	Asse	embly Process			\boxtimes	Data Shee	et			Wafer	Bump Material
	Asse	embly Material	ls			Part numb	per change			Wafer	Bump Process
	Mec	hanical Specifi	ication			Test Site				Wafer	Fab Site
	Pack	king/Shipping/	/Labeli	ng		Test Proce	ess			Wafer	Fab Materials
					•			Wafer	Fab Process		
1	Night Continue Date III										

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.



ADS7950, ADS7951, ADS7952, ADS7953, ADS7954, ADS7955 ADS7956, ADS7957, ADS7958, ADS7959, ADS7960, ADS7961

SLAS605C -JUNE 2008-REVISED JULY 2018

C	hanges from Revision B (July 2015) to Revision C	Page
•	Changed 0 to 2.5 V and 0 to 5 V to 0 to V _{REF} and 0 to 2 x V _{REF} in Input Range Features bullet	1
•	Changed GPIO Features bullet	1
•	Changed Optical Line Card Monitoring and Multi-Channel, General-Purpose Signal Monitoring Applications bullets	1
•	Changed (0 V to 2.5 V and 0 V to 5 V) to (0 V to V _{REF} and 0 V to 2 × V _{REF}) in Description section	1
•	Deleted Companion Products table	5
•	Changed RGE to RHB for two 32-pin VQFN pin diagrams	5
•	Added 30-pin DBT package	5
•	Changed I/O column of Pin Functions: TSSOP Packages table to show full definition instead of abbreviation	
•	Added active low to definition of CS pin in Pin Functions: TSSOP Packages table	7
•	Changed pin name and description of Alarm pin in Pin Functions: TSSOP Packages table	7
•	Added settings to description of Range pin in Pin Functions: TSSOP Packages table: added (1) to high and (0) to love	N 7
•	Added active low to description of CS pin in Pin Functions: VQFN Packages table	8
•	Changed pin name and description of Alarm pin in Pin Functions: VQFN Packages table	9
•	Changed value of Input current to any pin except supply pins row from ±10 mA (max) to -10 mA (min) and 10 mA (max) in Absolute Maximum Ratings table	10
•	Changed VBD = 1.7 V to 5.25 V to VBD = 1.7 V to +VA in condition statement	12
•	Changed minimum specification from -1 LSB to -0.99 LSB in first row of Differential linearity parameter	12
	Added input to Reference input resistance parameter name	13
•	Changed maximum specification from FFC Hex to 4092 LSB in Alarm Setting parameters	
•	Changed unit from Numbers to Conversion in Invalid conversions after power up or reset parameter	
	Changed VBD = 1.7 V to 5.25 V to VBD = 1.7 V to +VA in condition statement	14

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•	Added input to Reference input resistance parameter na	name		14
•	Changed maximum specification from FFC Hex to 4092	2 LSB in Alarm Setting parame	eters	14
•	Changed VBD = 1.7 V to 5.25 V to VBD = 1.7 V to +VA	A in condition statement		15
•	Added input to Reference input resistance parameter na	name		16
	Changed maximum specification from FF Hex to 255 LS	SB in Alarm Setting paramete	rs	16
•	Changed unit from Numbers to Conversion in Invalid co	onversions after power up or r	eset parameter	16
	Changed REF and GND pins to REFP and REFM pins	in the Reference section		29
	Added Example Manual Mode Timing Diagram figure ar	and corresponding text to Oper	rating in Manual Mode section	33
•	Added Example Auto-1 Mode Timing Diagram figure an section		perating in Auto-1 Mode	35
٠	Added Example Auto-2 Mode Timing Diagram figure an section			39
•	Changed 2.5V to V _{REF} in first DI06 row and 5V to 2xV _{RE}	REF in second DI06 row		40
٠	Changed binary code from 0001 1111 1111 to 0011 111 Devices and Digital Output Codes for 10-Bit Devices (A			4
•	Changed 10-Bit to 8-Bit in title of Ideal Input Voltages for (ADS7958/59/60/61) table			42
	Changed Application Diagram for an Unbuffered MXO fi	figure note		4
•	Changed Recommended Layout figure title to Recomme			
•	Added Recommended Layout for the VQFN Packaged	Device figure	T	5
The	e datasheet number will be changing.			
		Change From:	Change To:	
<u> </u>	Trice running	Sharige 1101	Change 101	

Device Family	Change From:	Change To:
ADS7950-ADS7961	SLAS605B	SLAS605C

These changes may be reviewed at the datasheet links provided.

http://www.ti.com/product/ADS7950

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:

ADS7950SBDBT	ADS7952SBDBT	ADS7954SDBT	ADS7958SRGER
ADS7950SBDBTG4	ADS7952SBDBTG4	ADS7954SDBTR	ADS7958SRGET
ADS7950SBDBTR	ADS7952SBDBTR	ADS7954SRGER	ADS7959SDBT
ADS7950SBRGER	ADS7952SBRHBR	ADS7954SRGET	ADS7959SDBTG4
ADS7950SBRGET	ADS7952SBRHBT	ADS7955SDBT	ADS7959SDBTR
ADS7950SDBT	ADS7952SDBT	ADS7955SDBTG4	ADS7959SRGER
ADS7950SDBTG4	ADS7952SDBTG4	ADS7955SDBTR	ADS7959SRGET
ADS7950SDBTR	ADS7952SDBTR	ADS7955SRGER	ADS7960SDBT
ADS7950SDBTRG4	ADS7952SRHBR	ADS7955SRGET	ADS7960SDBTG4
ADS7950SRGER	ADS7952SRHBT	ADS7956SDBT	ADS7960SDBTR
ADS7950SRGET	ADS7953SBDBT	ADS7956SDBTR	ADS7960SRHBR
ADS7951SBDBT	ADS7953SBDBTG4	ADS7956SRHBR	ADS7960SRHBT
ADS7951SBDBTG4	ADS7953SBDBTR	ADS7956SRHBT	ADS7961SDBT
ADS7951SBDBTR	ADS7953SBRHBR	ADS7957SDBT	ADS7961SDBTG4
ADS7951SBRGER	ADS7953SBRHBT	ADS7957SDBTR	ADS7961SDBTR
ADS7951SBRGET	ADS7953SDBT	ADS7957SRHBR	ADS7961SDBTRG4
ADS7951SDBT	ADS7953SDBTG4	ADS7957SRHBT	ADS7961SRHBR
ADS7951SDBTG4	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