

PCN Number:	20180809000	PCN Date:	August 13, 2018
Title:	Datasheet for ADS7950-ADS7961		
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"/>	Wafer Bump Site
		<input type="checkbox"/>	Wafer Bump Material
		<input type="checkbox"/>	Wafer Bump Process
		<input type="checkbox"/>	Wafer Fab Site
		<input type="checkbox"/>	Wafer Fab Materials
		<input type="checkbox"/>	Wafer Fab Process

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

Changes 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 $2 \times V_{REF}$ in <i>Input Range Features</i> bullet	1
• Changed <i>GPIO Features</i> bullet	1
• Changed <i>Optical Line Card Monitoring</i> and <i>Multi-Channel, General-Purpose Signal Monitoring Applications</i> 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 $2 \times V_{REF}$) in <i>Description</i> section	1
• Deleted <i>Companion Products</i> 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 <i>Pin Functions: TSSOP Packages</i> table to show full definition instead of abbreviation	6
• Added <i>active low</i> to definition of \overline{CS} pin in <i>Pin Functions: TSSOP Packages</i> table	7
• Changed pin name and description of Alarm pin in <i>Pin Functions: TSSOP Packages</i> table	7
• Added settings to description of Range pin in <i>Pin Functions: TSSOP Packages</i> table: added (1) to high and (0) to low	7
• Added <i>active low</i> to description of CS pin in <i>Pin Functions: VQFN Packages</i> table	8
• Changed pin name and description of Alarm pin in <i>Pin Functions: VQFN Packages</i> table	9
• Changed value of <i>Input current to any pin except supply pins</i> row from ± 10 mA (max) to -10 mA (min) and 10 mA (max) in <i>Absolute Maximum Ratings</i> table	10
• Changed $V_{BD} = 1.7$ V to 5.25 V to $V_{BD} = 1.7$ V to +VA in condition statement	12
• Changed minimum specification from -1 LSB to -0.99 LSB in first row of <i>Differential linearity</i> parameter	12
• Added <i>input</i> to <i>Reference input resistance</i> parameter name	13
• Changed maximum specification from <i>FFC Hex</i> to 4092 LSB in <i>Alarm Setting</i> parameters	13
• Changed unit from <i>Numbers</i> to <i>Conversion</i> in <i>Invalid conversions after power up or reset</i> parameter	13
• Changed $V_{BD} = 1.7$ V to 5.25 V to $V_{BD} = 1.7$ V to +VA in condition statement	14

• Added input to Reference input resistance parameter name	14
• Changed maximum specification from FFC Hex to 4092 LSB in Alarm Setting parameters	14
• Changed VBD = 1.7 V to 5.25 V to VBD = 1.7 V to +VA in condition statement	15
• Added input to Reference input resistance parameter name	16
• Changed maximum specification from FF Hex to 255 LSB in Alarm Setting parameters	16
• Changed unit from Numbers to Conversion in Invalid conversions after power up or reset parameter	16
• Changed REF and GND pins to REFP and REFM pins in the Reference section	29
• Added Example Manual Mode Timing Diagram figure and corresponding text to Operating in Manual Mode section	33
• Added Example Auto-1 Mode Timing Diagram figure and corresponding text to the Operating in Auto-1 Mode section	35
• Added Example Auto-2 Mode Timing Diagram figure and corresponding text to the Operating in Auto-2 Mode section	39
• Changed 2.5V to V_{REF} in first DI06 row and 5V to $2xV_{REF}$ in second DI06 row	40
• Changed binary code from 0001 1111 1111 to 0011 1111 1111 in Full scale row of Ideal Input Voltages for 10-Bit Devices and Digital Output Codes for 10-Bit Devices (ADS7954/55/56/57) table	41
• Changed 10-Bit to 8-Bit in title of Ideal Input Voltages for 8-Bit Devices and Digital Output Codes for 8-Bit Devices (ADS7958/59/60/61) table	42
• Changed Application Diagram for an Unbuffered MXO figure note	48
• Changed Recommended Layout figure title to Recommended Layout for the TSSOP Packaged Device	52
• Added Recommended Layout for the VQFN Packaged Device figure	53

The datasheet number will be changing.

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.

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