PCN Number:	20150112000	PCN Date:	01/20/2015
Title:	Datasheet update for DS90UB301Q/DS90UH301Q-Q1,DS90UB925Q/DS90UH925Q-Q1		
Customer Contact:	PCN Manager	Dept:	Quality Services
Change Type:			

☐	Assembly Site	☐	Design	☐	Wafer Bump Site
☐	Assembly Process	☒	Data Sheet	☐	Wafer Bump Material
☐	Assembly Materials	☐	Part number change	☐	Wafer Bump Process
☐	Mechanical Specification	☐	Test Site	☐	Wafer Fab Site
☐	Packing/Shipping/Labeling	☐	Test Process	☐	Wafer Fab Materials
				☐	Wafer Fab Process

PCN Details

Description of Change:

The product datasheet(s) is being updated as summarize below.

The following change history provides further details

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TEXAS INSTRUMENTS

DS90UB301Q-Q1

SNLS409A – JUNE 2012 – REVISED OCTOBER 2014 www.ti.com

Changes from Original (June 2012) to Revision A **Page**

- Added data sheet flow and layout to conform with new TI standards. Added the following sections: Handling Ratings, Device Functional Modes; Programming; Power Supply Recommendations; Layout; Device and Documentation Support; Mechanical, Packaging and Ordering Information 1
- Added to Absolute Maximum Rating section, note (3): The maximum limit (V_{DDIO} +0.3V) does not apply to the PDB pin during the transition to the power down state (PDB transitioning from HIGH to LOW) 6
- Deleted derate from Maximum Power Dissipation Capacity at 25°C. 6
- Added additional thermal charateristics 7
- Added typical charateristic graphics 13
- Changed Fixed typo for GPIO configuration 17
- Deleted 18-bit mode from MODE_SEL table 21
- Changed ideal voltages for modes #2 and #3 21
- Deleted IDx addresses 0x22, 0x24, 0x2E, 0x30, 0x32, 0x34 24
- Changed suggested resistor values for IDx addresses 0x1E, 0x20, 0x26, 0x28, 0x2A 24
- Added application graphics of the serializer CML output 37

TEXAS INSTRUMENTS

DS90UB925Q-Q1

SNLS407D – APRIL 2012 – REVISED OCTOBER 2014 www.ti.com

Changes from Revision C (April 2013) to Revision D **Page**

- Added data sheet flow and layout to conform with new TI standards. Added the following sections: Handling Ratings, Device Functional Modes; Programming; Power Supply Recommendations; Layout; Device and Documentation Support; Mechanical, Packaging and Ordering Information 1
- Added Device Information table 1
- Fixed typo for GPIO configuration 19
- Removed two MODE_SEL modes: I2S Channel B, and Backward Compatible 23
- Removed IDx addresses 0x22, 0x24, 0x2E, 0x30, 0x32, 0x34 26
- Changed suggested resistor values for IDx addresses 0x1E, 0x20, 0x26, 0x28, 0x2A 26

DS90UH925Q-Q1

SNLS336J – OCTOBER 2010 – REVISED NOVEMBER 2014 www.ti.com

Changes from Revision I (April 2013) to Revision J	Page
• Added, updated, or renamed the following sections: Device Information Table, Pin Configuration and Functions, Application and Implementation; Power Supply Recommendations; Layout; Device and Documentation Support; Mechanical, Packaging, and Ordering Information	1
• Fixed typo for GPIO configuration	17
• Removed two MODE_SEL modes: I2S Channel B, and Backward Compatible	22
• Removed IDx addresses 0x22, 0x24, 0x2C, 0x2E, 0x30, 0x32, 0x34	25
• Changed suggested resistor values for IDx addresses 0x1E, 0x20, 0x26, 0x28, 0x2A	25

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DS90UH301Q-Q1

SNLS424B – OCTOBER 2012 – REVISED OCTOBER 2014 www.ti.com

Changes from Revision A (April 2013) to Revision B	Page
• Changed data sheet flow and layout to conform with new TI standards. Added the following sections: Handling Ratings; Device Functional Modes; Programming; Application and Implementation; Power Supply Recommendations; Layout; Device and Documentation Support; Mechanical, Packaging, and Ordering Information	1
• Added additional thermal charateristics	6
• Added typical charateristic graphics.	12
• Fixed typo for GPIO configuration	16
• Removed 18-bit mode from MODE_SEL table	20
• Changed ideal voltages for modes #2 and #3	20
• Removed IDx addresses 0x22, 0x24, 0x2C, 0x2E, 0x30, 0x32, 0x34	23
• Changed suggested resistor values for IDx addresses 0x1E, 0x20, 0x26, 0x28, 0x2A	23
• Added application graphics of the serializer CML output	39

The datasheet number will be changing.

Device Family	Change From:	Change To:
DS90UB301Q-Q1	SNLS409	**SNLS409A**
DS90UB925Q-Q1	SNLS407C	**SNLS407D**
DS90UH925Q-Q1	SNLS336I	**SNLS336J**
DS90UH301Q-Q1	SNLS424A	**SNLS424B**

These changes may be reviewed at the datasheet links provided.
http://www.ti.com/product/DS90UB925Q-Q1

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:

DS90UB301QSQ/NOPB	DS90UB925QSQE/NOPB	DS90UH925QSQ/E7002397
DS90UB301QSQE/NOPB	DS90UB925QSQX/E7002826	DS90UH925QSQ/NOPB
DS90UB301QSQX/NOPB	DS90UB925QSQX/NOPB	DS90UH925QSQE/E7002397

DS90UB925QSQ/E7002826	DS90UH301QSQ/NOPB	DS90UH925QSQE/NOPB
DS90UB925QSQ/NOPB	DS90UH301QSQE/NOPB	DS90UH925QSQX/E7002397
DS90UB925QSQE/E7002826	DS90UH301QSQX/NOPB	DS90UH925QSQX/NOPB

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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