Notification Number:	20220222001.0	Notification Date:	April 27, 2022
Title:	Datasheet for DS90UH948-Q1 and DS90UB948-Q1		
Customer Contact:	Notification Manager	Dept:	Quality Services

Change Type: Electrical Specification

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.

TEXAS INSTRUMENTS

DS90UH948-Q1
SNLS473D – OCTOBER 2014 – REVISED FEBRUARY 2022

Changes from Revision C (December 2020) to Revision D (February 2022) **Page**

- Clarified max channel insertion loss over frequency 1
- Clarified the description of the clock and data differential output pins 5
- Changed IDx pin voltage from VDD18 to VDD33 5
- Removed normal mode PASS function since PASS is used only in BIST mode 5
- Updated the inclusive termonologies for SPI and I2C by changing "master" and "slave" wording 5
- Updated the SPI pin names from "MOSI" to "PICO", "MISO" to "POCI", and "SS" to "CS" 5
- Changed the I2S mode names from Slave Mode to Surround Sound Mode, and from Master Mode to Auxiliary Audio Mode 5
- Added some missing units for current and voltage 12
- Modified the list of compatible devices 22
- Removed PASS from the table since PASS functionality is only used for BIST mode 24
- Corrected the Nyquist Frequency for PCLK 192MHz 31
- Added clarification for I2S transport modes 33
- Added clarifying notes for BIST function 39
- Added a clarifying note on using I2C while PATGEN is enabled 40
- Added new section "Dual Swap" 43
- Clarified LVDS mapping names 44
- LVDS Formats table added 44
- Added clarifying notes to LUT contents. 49
- Added LUT Programming Example 50
- Added clarifying notes about I2C access over the BCC 53
- Specified which registers are not being reset when digital reset is applied 56
- Changed default value of register 0x01[2] and added clarifying notes 56
- Changed default value of register 0x03[7] 56
- Changed reset value of register 0x1D, and changed default value for bits [7:4] 56
- Changed reset value for registers 0x1E and 0x1F to 0x00 56
- Added clarifying note to register 0x22, that surround audio is not supported in repeater mode when 18-bit video mode is enabled 56
- Added minimum value to register 0x26 56
- Changed default value for register 0x45[7:5] and changed to R/W. Added clarifying note. 56
- Changed default value for register 0x4B[3:2] and changed to R/W. Added clarifying note 56
- Added clarifying note to CMLOUT function in register 0x57 56
- Changed default value for register 0xF4 56
- Corrected the name of the Pattern Generation Application Note in the *Related Documentation* section. 106

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The datasheet number will be changing.

Device Family	Change From:	Change To:
DS90UH948-Q1	SNLS473C	SNLS473D
DS90UB948-Q1	SNLS477C	SNLS477D

These changes may be reviewed at the datasheet links provided.
http://www.ti.com/product/DS90UH948-Q1
http://www.ti.com/product/DS90UB948-Q1

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 notification:

None.

Product Affected:

DS90UH948TNKDRQ1	DS90UH948TNKDTQ1	DS90UB948TNKDTQ1	DS90UB948TNKDRQ1

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