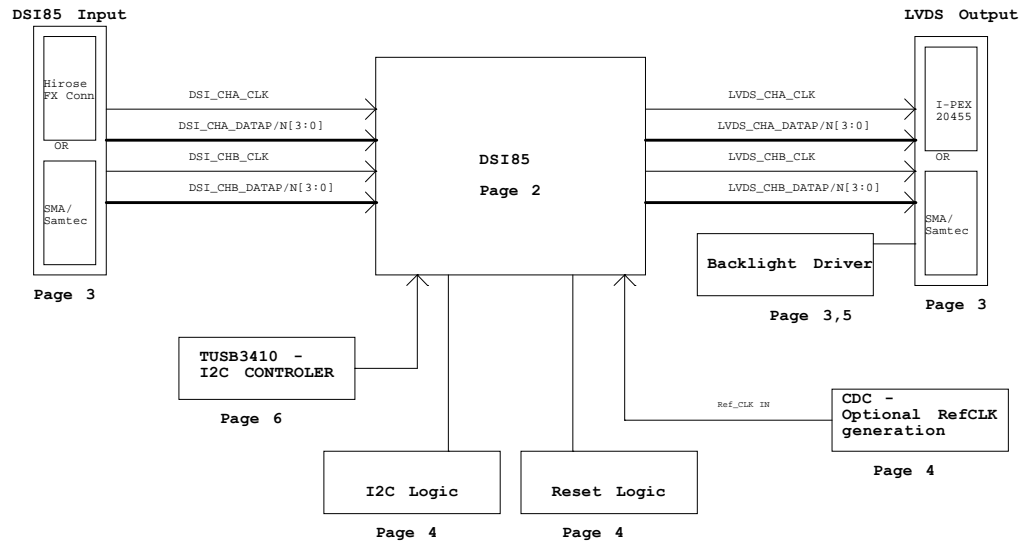
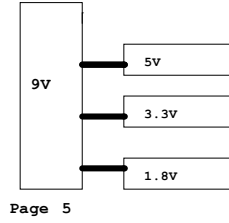


SN65DSI85Q1 -EVM INT062-001



NOTE LEGEND

SilkScreen: SILK SCREEN

DESIGN NOTES

NOTE:

FUNCTIONAL BLOCKS

POWER BLOCKS

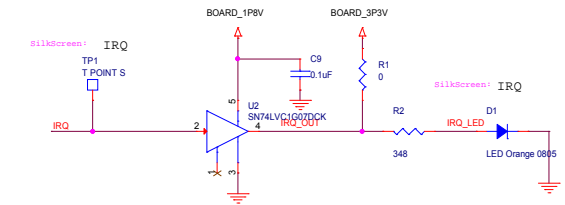
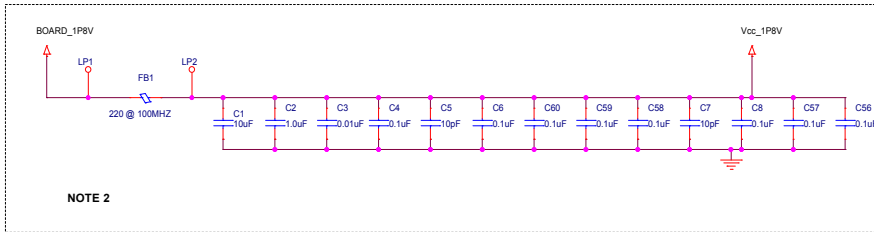
DNI: Do Not Install

Title	SN65DSI85Q1-EVM INT062-001: Schematics Block Diagram	
Size	Document Number	Rev
C	SN65DSI85Q1-EVM INT062-001 REV A	
Date:	Tuesday, March 14, 2017	Sheet 1 of 6

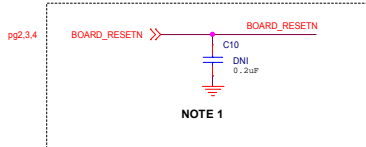
NOTES:

1. Reset(EN) can be implemented with passive components as shown or active circuitry. In case of using passive components, the values of the RC circuitry need to be adjusted to make sure the low to high transition occurs after the Vcc supply has reached the minimum recommended operating voltage. For this reason, it is recommended to USE ACTIVE CIRCUITRY for better control of the RESET/EN timing.
2. The number of capacitors and their values may vary depending on the system implementation
3. Optional ref CLK for LVDS Pixel CLK. 25MHz-154MHz
4. C11 1uF is min value.
5. R5: Terminate to GND with a pull-down resistor if unused
6. LEAVE UNCONNECTED FOR NORMAL OPERATION
7. This connector is to interface DSIA Ch using FX64-40P-0.8SV Type plug.
8. - Remove R6-R15 for DSI source connected to J4
- Populate R6-R15 when a source connected through J1
R6 - R15 to be placed as near as J4 to avoid stub when J1 is not in use
9. This header is for supplying backlight power to flat panels with LED backlight. The pinout matches the connector definition of the back light driver TPS61181 EVM.
10. 20455-040E-12 has no pin1 datum mark. 20455-040E-0X series is same connector with pin1 datum mark, however the datum mark is on the opposite end of where pin 1 is.
11. This connector is to interface DSI interface with any source with SMA connectors via Samtec to SMA cable
12. This connector is to interface Flatlink LVDS interface to LCD Panels via breakout boards with Flatlink LCD panel connector
13. SHUNT on CDC_SDA and CDC_SCL pin1 and 2 if external I2C host via J10 for I2C programming of CDC device
14. WHEN INSTALLED DO NOT INSTALL J15 Power selection header
15. Remove FB6 for external power option. Vin = '5V-24V'
16. Tie to 'LOW' if external backlight driver used.
17. DimmingCTRL set to 'LOW' for default config.
18. DNI if external backlight driver used.

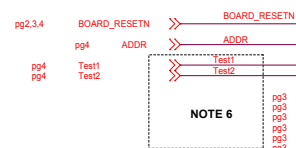
Title		
SN65DSI85Q1-EVM INT062-001		
Size	Document Number	Rev
A	SN65DSI85Q1-EVM INT062-001	A
Date:	Tuesday, March 14, 2017	Sheet 1 of 1



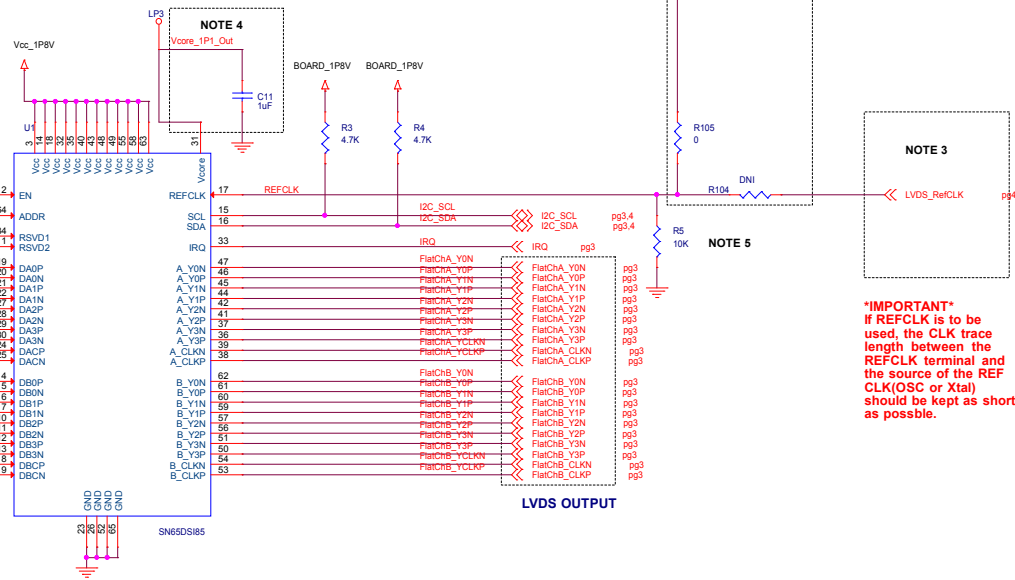
Reset Implementation



ADDR = 1, Slave Addr = 0x2D
 ADDR = 0, Slave Addr = 0x2C



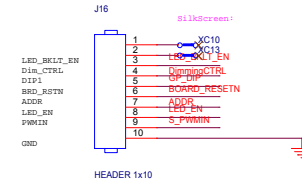
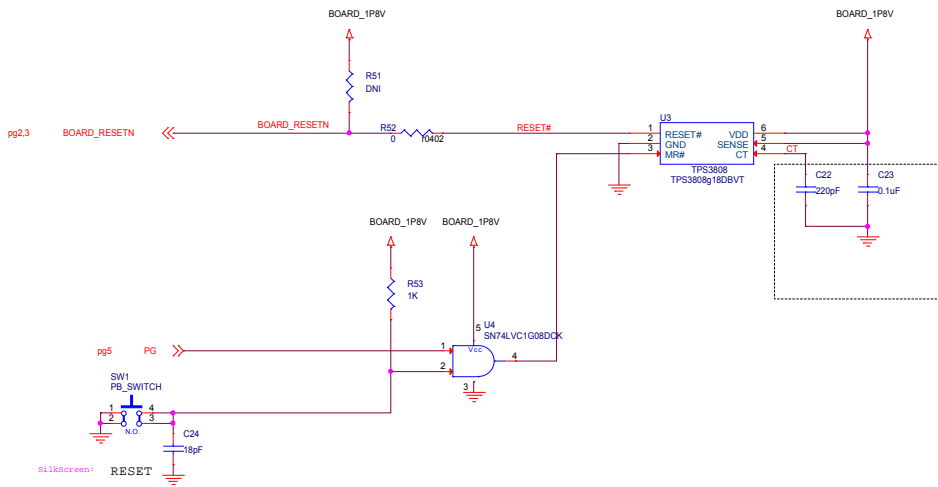
SN65DSI85



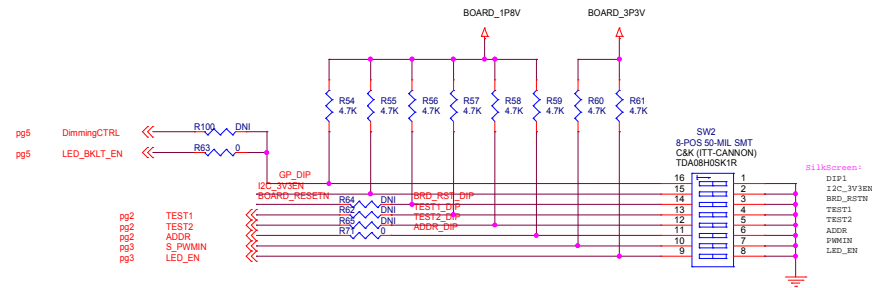
DSI INPUT

LVDS OUTPUT

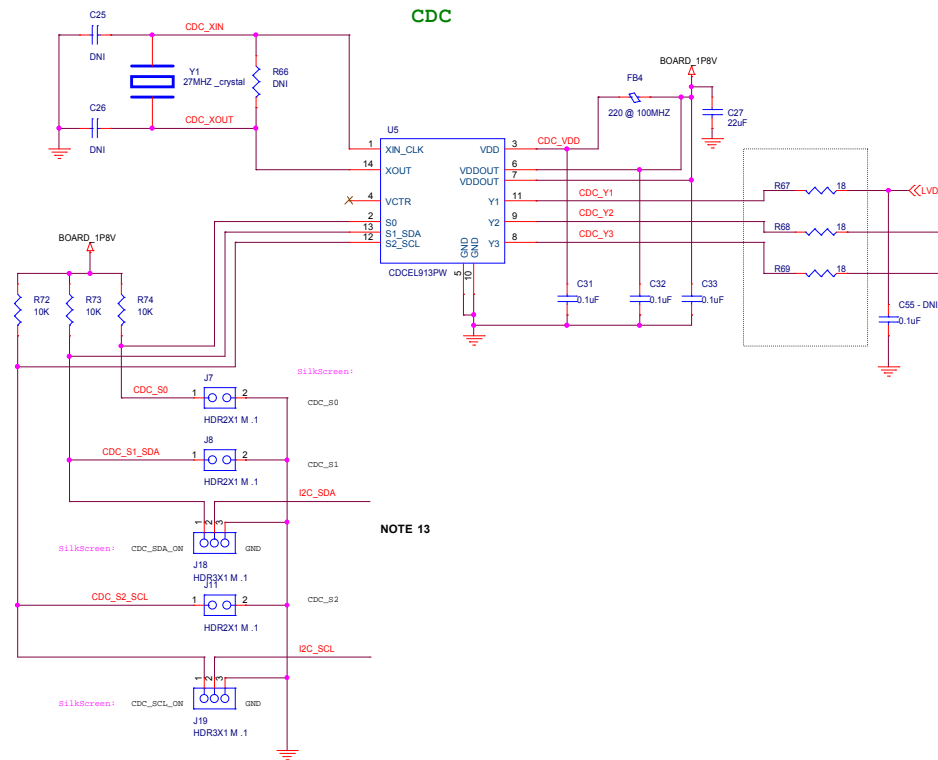
RESET



DIPSW

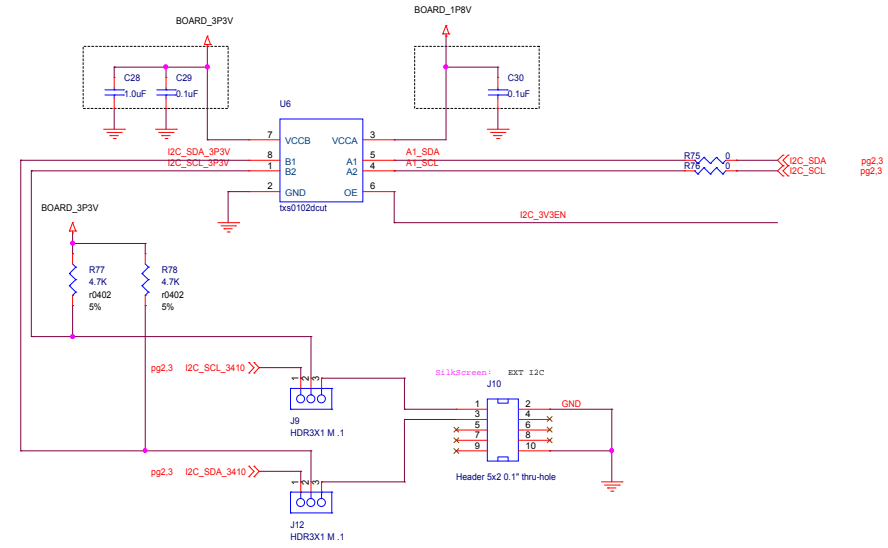


CDC

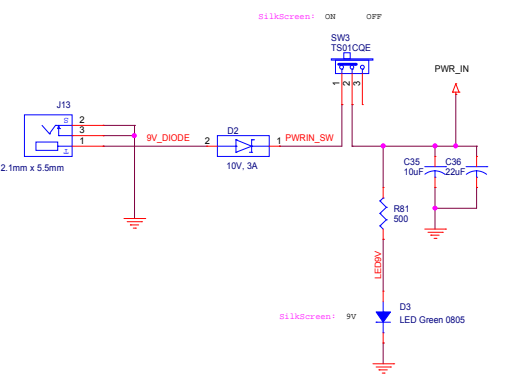


NOTE 13

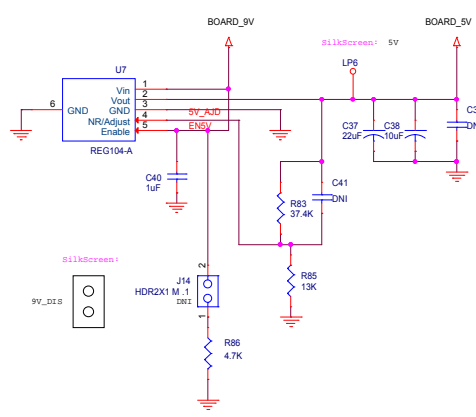
I2C



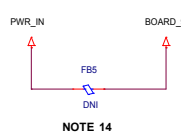
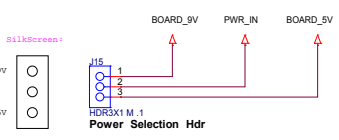
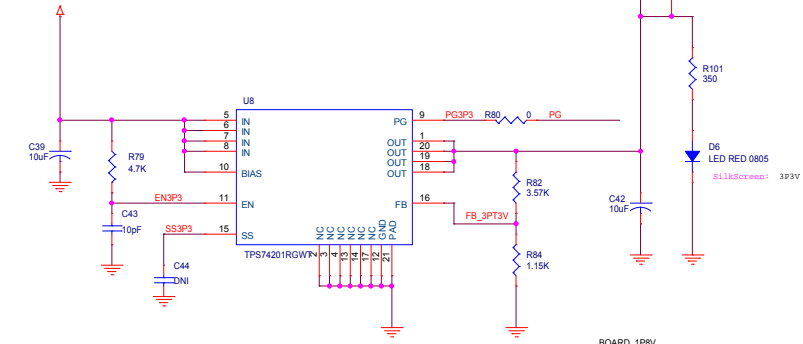
Title		SN65DS85Q1-EVM INT062-001: PAGE 04 RESET_CDC	
Document Number		SN65DS85Q1-EVM INT062-001 revA	
Size	C	Rev	
Date: Wednesday, March 15, 2017		Sheet 4 of 6	



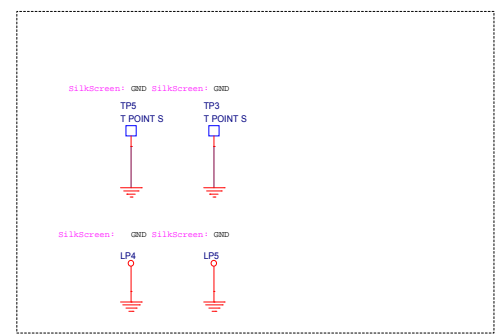
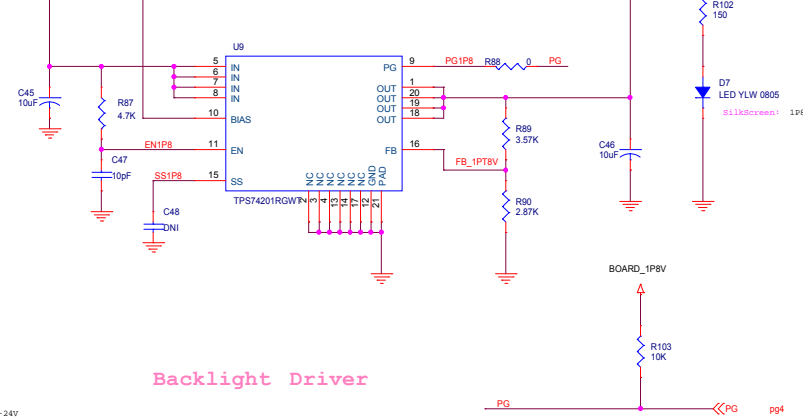
5V REGULATOR



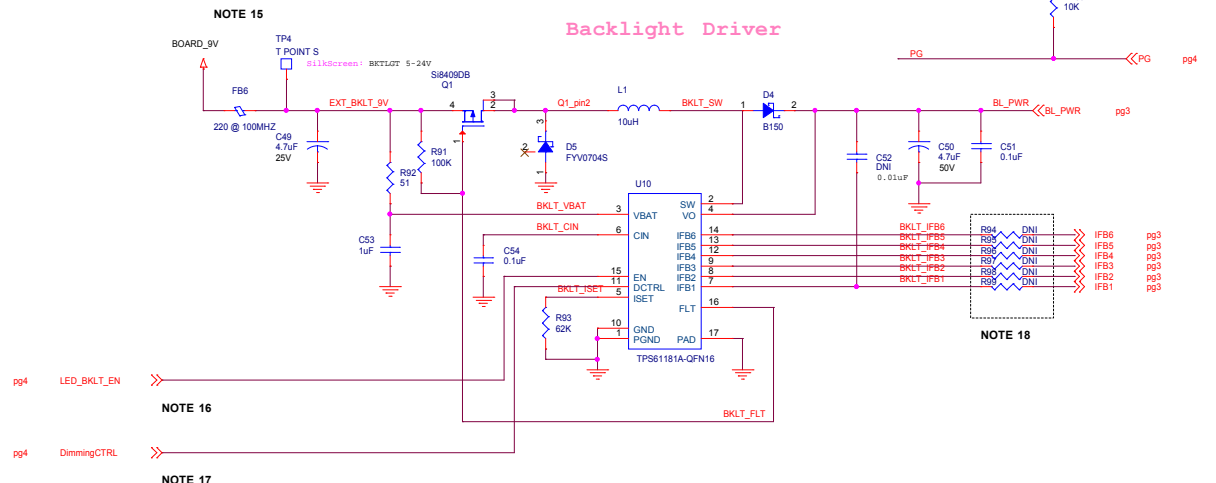
3.3V REGULATOR



1.8V REGULATOR



Backlight Driver



IMPORTANT NOTICE FOR TI DESIGN INFORMATION AND RESOURCES

Texas Instruments Incorporated ("TI") technical, application or other design advice, services or information, including, but not limited to, reference designs and materials relating to evaluation modules, (collectively, "TI Resources") are intended to assist designers who are developing applications that incorporate TI products; by downloading, accessing or using any particular TI Resource in any way, you (individually or, if you are acting on behalf of a company, your company) agree to use it solely for this purpose and subject to the terms of this Notice.

TI's provision of TI Resources does not expand or otherwise alter TI's applicable published warranties or warranty disclaimers for TI products, and no additional obligations or liabilities arise from TI providing such TI Resources. TI reserves the right to make corrections, enhancements, improvements and other changes to its TI Resources.

You understand and agree that you remain responsible for using your independent analysis, evaluation and judgment in designing your applications and that you have full and exclusive responsibility to assure the safety of your applications and compliance of your applications (and of all TI products used in or for your applications) with all applicable regulations, laws and other applicable requirements. You represent that, with respect to your applications, you have all the necessary expertise to create and implement safeguards that (1) anticipate dangerous consequences of failures, (2) monitor failures and their consequences, and (3) lessen the likelihood of failures that might cause harm and take appropriate actions. You agree that prior to using or distributing any applications that include TI products, you will thoroughly test such applications and the functionality of such TI products as used in such applications. TI has not conducted any testing other than that specifically described in the published documentation for a particular TI Resource.

You are authorized to use, copy and modify any individual TI Resource only in connection with the development of applications that include the TI product(s) identified in such TI Resource. NO OTHER LICENSE, EXPRESS OR IMPLIED, BY ESTOPPEL OR OTHERWISE TO ANY OTHER TI INTELLECTUAL PROPERTY RIGHT, AND NO LICENSE TO ANY TECHNOLOGY OR INTELLECTUAL PROPERTY RIGHT OF TI OR ANY THIRD PARTY IS GRANTED HEREIN, including but not limited to any patent right, copyright, mask work right, or other intellectual property right relating to any combination, machine, or process in which TI products or services are used. Information regarding or referencing third-party products or services does not constitute a license to use such products or services, or a warranty or endorsement thereof. Use of TI Resources may require a license from a third party under the patents or other intellectual property of the third party, or a license from TI under the patents or other intellectual property of TI.

TI RESOURCES ARE PROVIDED "AS IS" AND WITH ALL FAULTS. TI DISCLAIMS ALL OTHER WARRANTIES OR REPRESENTATIONS, EXPRESS OR IMPLIED, REGARDING TI RESOURCES OR USE THEREOF, INCLUDING BUT NOT LIMITED TO ACCURACY OR COMPLETENESS, TITLE, ANY EPIDEMIC FAILURE WARRANTY AND ANY IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, AND NON-INFRINGEMENT OF ANY THIRD PARTY INTELLECTUAL PROPERTY RIGHTS.

TI SHALL NOT BE LIABLE FOR AND SHALL NOT DEFEND OR INDEMNIFY YOU AGAINST ANY CLAIM, INCLUDING BUT NOT LIMITED TO ANY INFRINGEMENT CLAIM THAT RELATES TO OR IS BASED ON ANY COMBINATION OF PRODUCTS EVEN IF DESCRIBED IN TI RESOURCES OR OTHERWISE. IN NO EVENT SHALL TI BE LIABLE FOR ANY ACTUAL, DIRECT, SPECIAL, COLLATERAL, INDIRECT, PUNITIVE, INCIDENTAL, CONSEQUENTIAL OR EXEMPLARY DAMAGES IN CONNECTION WITH OR ARISING OUT OF TI RESOURCES OR USE THEREOF, AND REGARDLESS OF WHETHER TI HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

You agree to fully indemnify TI and its representatives against any damages, costs, losses, and/or liabilities arising out of your non-compliance with the terms and provisions of this Notice.

This Notice applies to TI Resources. Additional terms apply to the use and purchase of certain types of materials, TI products and services. These include; without limitation, TI's standard terms for semiconductor products (<http://www.ti.com/sc/docs/stdterms.htm>), [evaluation modules](#), and [samples](http://www.ti.com/sc/docs/sampterm.htm) (<http://www.ti.com/sc/docs/sampterm.htm>).

Mailing Address: Texas Instruments, Post Office Box 655303, Dallas, Texas 75265
Copyright © 2018, Texas Instruments Incorporated