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### **I2c Guide Rev E Ti**

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### **I2C Guide (Rev. E) - TI.com**

TMS320x2802x, 2803x Inter-Integrated Circuit (I2C) Module Reference Guide (Rev. E) Author: Texas Instruments, Incorporated [SPRUFZ9,E ] Subject: User's Guide Keywords: SPRUFZ9,SPRUFZ9E Created Date: 4/8/2020 3:18:07 PM

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### **Inter-Integrated Circuit (I2C) Module - TI.com**

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### **I2c Guide Rev E Ti - [catalog.drapp.com.ar](http://catalog.drapp.com.ar)**

The I2C module described in this reference guide is a Type 0 I2C. See the TMS320x28xx, 28xxx DSP Peripheral Reference Guide (SPRU566) for a list of all devices with an I2C module of the same type, to determine the differences between types, and for a list of device-specific differences within a type.

### **TMS320x280x, 2801x, 2804x Inter-Integrated Circuit (I2C**

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TI device I2C I2 C EPROM I2 C I2C TI device V DD Pull up resistors  
Serial data (SDA) Serial clock (SCL) controller [www.ti.com](http://www.ti.com)  
Peripheral Architecture 2 Peripheral Architecture The I2C  
peripheral consists of the following primary blocks: • A serial  
interface: one data pin (SDA) and one clock pin (SCL)

### **TMS320DM643x DMP Inter-Integrated Circuit (I2C ... - TI.com**

Just for your information, please remember that for all I2C write commands the MSB is set to 1. This is mentioned in section 1.1.1.4 DLPC900 Sub-Address and Data Bytes of the Rev E Programmer's guide - "Most I2C sub-addresses have a Read and Write command pair where the Write command equals the Read command with the most significant bit set."

**DLPC900: dlpc900 : about dlpc900 Pattern ... - e2e.ti.com**  
AM574x, AM572x, and AM571x Compatibility Guide (Rev. E) ... e

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### **AM574x, AM572x, and AM571x Compatibility Guide (Rev. E)**

The solution to this issue is to use a mutex (e.g. GateMutex from TI-RTOS). Each instance of the I2C driver (i.e. corresponding to the physical controllers in a device) should have its own mutex. Upon starting a transaction a thread locks the mutex, and upon completing the transaction it unlocks the mutex.

### **I2C Tips - Texas Instruments Wiki**

User manual Rev. 6 — 4 April 2014 6 of 64 NXP Semiconductors UM10204 I2C-bus specification and user manual 2.3 IC designer benefits Designers of microcontrollers are frequently under pressure to conserve output pins. The I2C protocol allows connection of a wide variety of peripherals without the need for separate addressing or chip enable signals.

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### **UM10204 I2C-bus specification and user manual**

www.ti.com Peripherals Available Per Device Table 6.

TMS320x2834x Peripheral Selection Guide PERIPHERAL GUIDE

Lit. No. TYPE(1) 28346, 28345, 28344, 28343, 28342, 28341

TMS320x2834x Delfino System Control and Interrupts SPRUFN1 -  
X TMS320x2834x Delfino External Interface (XINTF) SPRUFN4 1 X

### **TMS320x28xx, 28xxx DSP Peripherals Reference Guide (Rev. I**

Note: Multi master is not covered in this I2C tutorial as the more common use of I2C is to use a single bus master to control peripheral devices e.g. serial memory, ADC, RTC etc. Data and Clock. The I2C interface uses two bi-directional lines meaning that any device could drive either line.

### **The Essential I2C Tutorial: All you need to know about I2C...**

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Related Documentation From Texas Instruments [www.ti.com](http://www.ti.com)  
SPRU566— TMS320x28xx, 28xxx Peripheral Reference Guide describes the peripheral reference guides of the 28x digital signal processors (DSPs). SPRUFB0— TMS320x2833x, 2823x System Control and Interrupts Reference Guide describes the various interrupts and system control features of the 2833x digital signal controllers (DSCs).

### **TMS320x2833x, 2823x Boot ROM Reference Guide (Rev. A**

You need set the I2C passthrough and set the correct I2C alias addr. 12 Device and Documentation Support 12.1

Documentation Support 12.1.1 Related Documentation For related documentation see the following: • DS90UB913A-CXEVM & DS90UB914A-CXEVM REV A User's Guide • I2C over DS90UB913/4 FPD-Link III with Bidirectional Control Channel

**DS90UB913A-Q1: AR0140AT and UB913 I2C ... - Texas**

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## **Instruments**

Beginners Guide to I2C. 2014-06-08. 2017-12-17. James Gibbard Electronics. I2C (or I<sup>2</sup>C) is a synchronous, half-duplex, serial, communication protocol commonly used to communicate between several integrated circuits on a PCB. I2C is often used to interface between a microcontroller and devices such as temperature sensors, accelerometers, and EEPROMs.

## **Beginners Guide to I2C - James Gibbard's Workshop**

I am currently trying to establish communication between 2 MSP430G2553 launchpads with one configured as I2C master and the other as I2C slave. I referred to the example program given for MSP430G2553. 1. msp430g2xx3\_uscib0\_i2c\_04 (master) and . 2. msp430g2xx3\_uscib0\_i2c\_05 (slave) I have made slight changes to example code for transmitting data.

## **I2C interface using MSP430G2553 - TI E2E support forums**



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Search TI I2C translators, buffers, switches, multiplexers, and find reference designs and other technical resources:

[www.ti.com/i2c](http://www.ti.com/i2c). <https://www.ti.com/inte...>

### **TI Precision Labs - I2C: Hardware Overview**

It's only there to talk to EEPROMs at addresses 0x50 during boot time. User access at runtime is problematic. If you want a general purpose I2C bus on the B+, you'll need to use I2C-1, on pins 3 and 5 of the 40-pin connector, marked SDA and SCL on the Pi Wedge. Enabling I2C-0. I2C-0 is disabled by default.

### **Raspberry Pi SPI and I2C Tutorial - [learn.sparkfun.com](http://learn.sparkfun.com)**

I searched on TI.com and found that this comes with a few eval boards but that is all. The GUI is very extensive and looks like there is support for a lot of uses but as I mentioned there is no User Guide for the box itself. Looks like this could be a powerful tool to use for various generic troubleshooting and interfacing.

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### **USB2ANY User Guide - TI E2E support forums**

14 Detailed Hardware Installation Guide ... Support for MSP430 devices and the eZ430-RF2500 is provided by the Texas Instruments Product Information Center (PIC). Contact information for the PIC can be found on the TI web site at [www.ti.com](http://www.ti.com). ... USCI\_B0 slave out/master in when in SPI mode, SCL I2C clock in I2C mode General-purpose digital I/O pin

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