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What Is...I2C?

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I²C (Inter-Integrated Circuit), pronounced I-squared-C, is a synchronous, multi-master, multi-slave, packet switched, single-ended, serial communication bus invented in 1982 by Philips Semiconductor (now NXP Semiconductors). It is widely used for attaching lower-speed peripheral ICs to processors and microcontrollers in short-distance, intra-board communication.

I²C—Wikipedia

I²C or I2C is an abbreviation of Inter-Integrated Circuit, a serial communication protocol made by Philips Semiconductor (now it is NXP Semiconductor). It is created with an intention of communication between chips reside on the same Printed Circuit Board (PCB). It is commonly usually used to interface slow speed ICs to a microprocessor or a microcontroller.

I²C or I2C—Inter-Integrated Circuit—Working Explanation

I2C is ordinarily pronounced “ I-two-C ” , though it is also sometimes written as IIC (and pronounced “ I-I-C ”) or I 2 C

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(pronounced “ I-squared-C ”). The acronym stands for Inter-Integrated-Circuit. It is a type of serial computer bus and communications protocol that was first introduced to the market by Philips Semiconductor in 1982.

~~What Is I2C (Inter-Integrated Circuit)? About I2C ...~~

The I 2 C bus was developed by Phillips Semiconductors, now NXP Semiconductors, in the early 1980s as a simple bidirectional, two-wire bus for efficient communications and control of integrated circuits on a common pc board.

~~I2C Bus Provides Efficient Device Communication | DigiKey~~
Inter-Integrated Circuit, known as I2C, I2C, or even IIC, is a two-wire data transfer bus. Philips Semiconductor (now NXP Semiconductors) invented the protocol in 1982, and it received widespread use in applications where low costs and ease-of-implementation take priority over lightning-quick speed.

~~What is I2C? How Inter-Integrated Circuits Work~~

To enable I2C support in Mbed OS, add the I2CLabel in the device_hasoption of the target's section in the targets.jsonfile. You can also add the I2C_ASYNCLabel in the device_hasoption to enable the asynchronous API,and I2CSLAVEto enable the I2CSlave API. Testing.

~~Inter-integrated circuit (I2C) - Porting | Mbed OS 6 ...~~

The Inter-Integrated Circuit™ (I2C™) module is a serial interface useful for communicating with other peripheral or microcontroller devices. These peripheral devices may be serial EEPROMs, display drivers, analog-to-digital converters, etc.

~~Section 24. Inter-Integrated Circuit (I2C)~~

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The Inter-Integrated Circuit (I²C) Protocol is a protocol intended to allow multiple "peripheral" digital integrated circuits ("chips") to communicate with one or more "controller" chips. Like the Serial Peripheral Interface (SPI), it is only intended for short distance communications within a single device.

~~I2C - learn.sparkfun.com~~

The Inter-Integrated Circuit (I²C) module is a serial interface useful for communicating with other peripheral or microcontroller (MCU) devices. The external peripheral devices may be serial EEPROMs, display drivers, Analog-to-Digital Converters (ADC) and so on.

~~dsPIC33/PIC24 FRM, Inter-Integrated Circuit (I2C)~~

I²C is in common use on mobile devices, but has no way for slave devices to initiate communication, has pull-up resistors that limit clock rate and decrease power efficiency. In 2013, the MIPI Alliance initiated work on a common sensor standard that would keep the best features of I²C and SPI but add features that would improve sensor integration.

~~The improved inter-integrated circuit (I3C) replacing I2C bus~~
I²C - Inter-Integrated Circuit I²C Class in the Reference.
Hardware I²C On most boards there are hardware I²C peripherals.

~~I2C - Inter-Integrated Circuit - Espruino~~

An inter-integrated circuit (Inter-IC or I²C) is a multi-master serial bus that connects low-speed peripherals to a motherboard, mobile phone, embedded system or other electronic devices. Also known as a two-wire interface. Techopedia explains Inter-IC (I²C)

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~~What is Inter-IC (I2C)? - Definition from Techopedia~~

EL Bus I2C (Inter- Integrated Circuits) fue desarrollado al principio de los 80 s. Su propósito original fue el de proporcionar una manera fácil de conectar un CPU a los chips periféricos en un equipo de TV.

~~El bus inter-integrated circuits I2C - Monografias.com~~

Inter-integrated circuit (I2C) is a system for serial data exchange between the microcontrollers and specialized integrated circuits of a new generation. It is used when the distance between them is short (receiver and transmitter are usually on the same printed board). Connection is established via two conductors.

~~Arduino - Inter-Integrated Circuit - Tutorialspoint~~

The MCUXpresso SDK provides a peripheral driver for the Inter-Integrated Circuit (I2C) module of MCUXpresso SDK devices. The I2C driver includes functional APIs and transactional APIs. Functional APIs are feature/property target low-level APIs.

~~MCUXpresso SDK API Reference Manual: I2C: Inter-Integrated ...~~

I2C (Inter-Integrated Circuit).....14 Revision history
Version Date Comment
1.0 9/24/2015 Initial release
2.0 1/10/2016 Modified examples .
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I2C is a two-wire, synchronous bus designed to be cheap to implement on a single board. It is only moderately fast, usually lower than 400 KHz SCL baud rate. The bus electrical protocol (open drain, slew rate control) and logical protocol (start, restart, end) conditions

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