

We'll start off by explaining how the I2C LCD module works, its pinout, and how to connect it to your STM32 board. We'll display some text on the I2C LCD screen, make the text scroll on the LCD, and ...

MPLAB Tools for VS Code are a set of extensions that integrate the MPLAB development ecosystem with VS Code, offering a seamless and efficient environment for developing designs ...

I2C (inter-integrated circuit) bus Interface serves as an interface between the microcontroller and the serial I2C bus. It provides multi-master capability and controls all I2C bus-specific sequencing, ...

I2C Interface: Logic Levels and Timing The I2C standard specifies that the  $V_{IH}$  and  $V_{IL}$  be 70% and 30% of  $V_{CC}$  respectively.

In this tutorial, you'll learn how to configure and use the I2C interface on STM32 as a master using the STM32 HAL (Hardware Abstraction Layer). We'll guide you through the process of setting up the I2C ...

It's widely used in embedded systems to interface with sensors, EEPROMs, display modules, and other peripherals. In this tutorial, we'll explore how to configure and ...

The device is organized as a single block of 8K x 8-bit memory with a 2-wire serial interface. Low-voltage design permits operation down to 1.7V, with standby and active currents of ...

I2C is a two-wire serial communication system used between integrated circuits which was originally created by Philips Semiconductors back in 1982. The I2C is a multi-master, multi-slave, ...

In this Tutorial, I will explain the functions of the EEPROM pins, how to connect them to the STM32, how to configure the STM32 I2C pins using the STM32CubeMX, and present code ...

It covers the main features of this communication interface, which is widely used to connect devices such as microcontrollers, sensors, and serial interface memories.

Welcome to this STM32 I2C tutorial. In this guide, we'll configure I2C using register-level programming on STM32 microcontrollers. This STM32 I2C ...

This tutorial shows how to use the I2C interface on the STM32 devices. We will connect 2 STM32 boards using their I2C interface, will go over the I2C packet format, and will show how to use the ...

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