

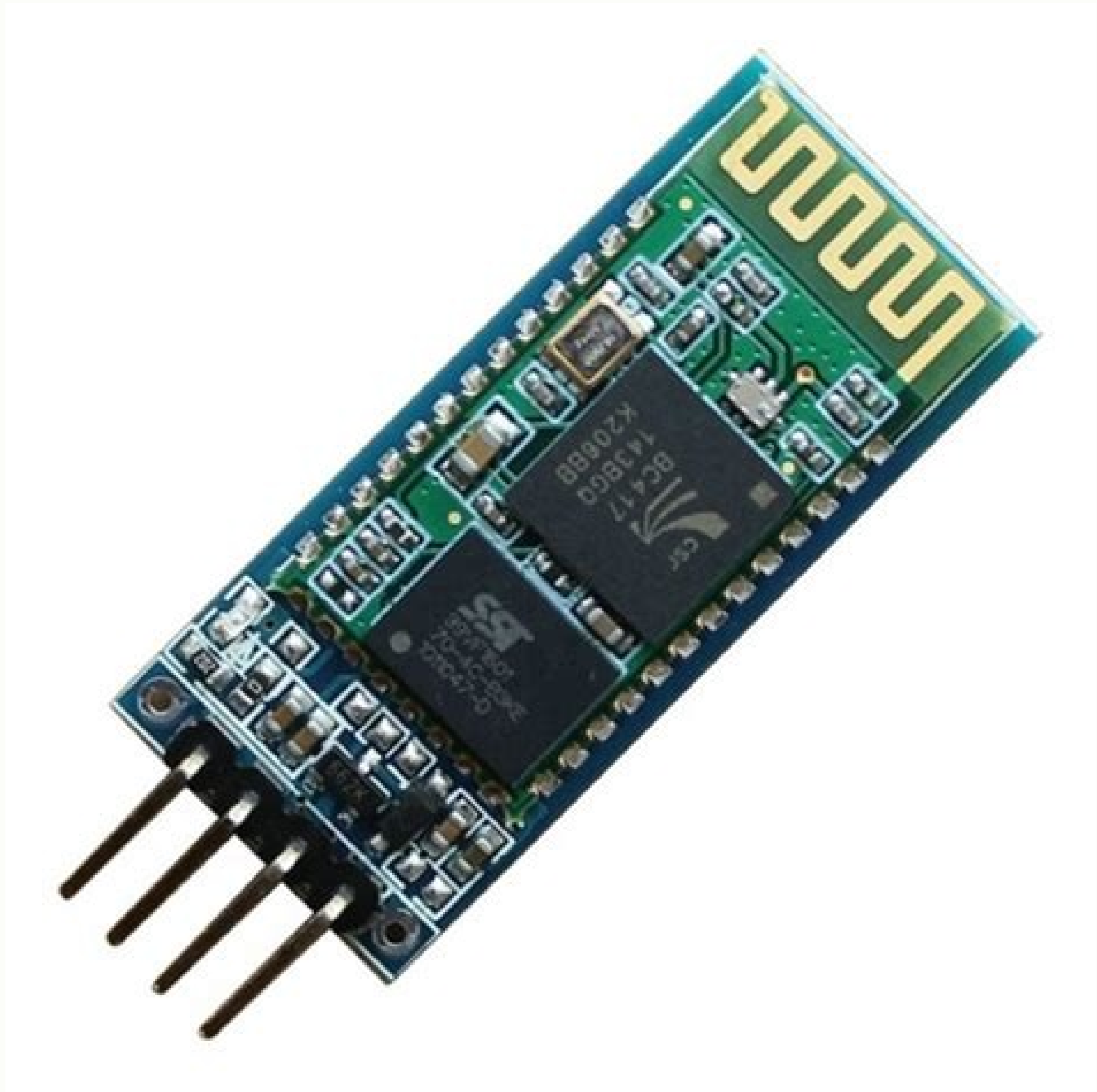
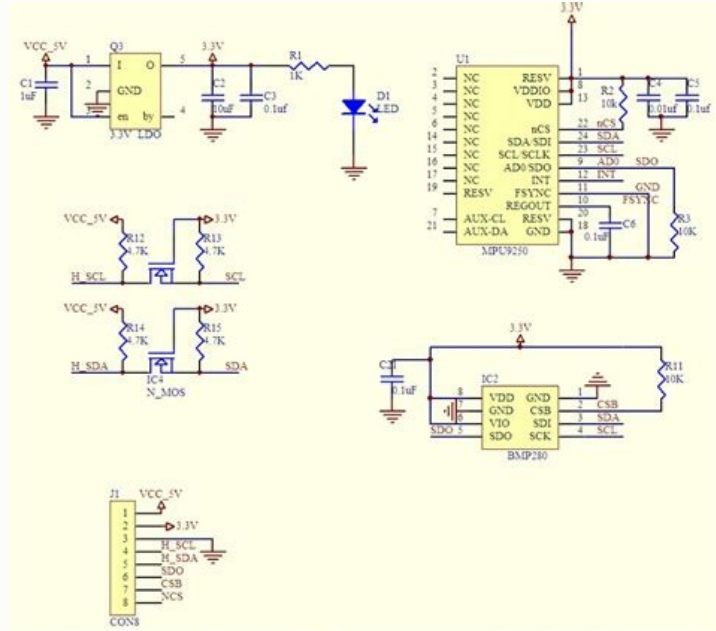
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Home Â" Arduino Â" I2C Communication Bus with Arduino controllers Today we will learn how I2C communication works with Arduino, and as an example we will connect an I2C LCD Interface to connect the LCD © through this protocol, but can use it for any other ©. In addition©m, you can download a free code so you can recognize the I2C BUS office of any ©. Before we start, I would like to invite you to attend our FREE ARDUINO COURSE. And you can subscribe to the YouTube channel if you want to continue learning how to program microcontrollers, like Arduino. I2C Arduino You can see the game I have prepared for you so that you can understand how to work with the I2C communication protocol using the Arduino platform. What is © the I2C Communication Bus in Arduino? The Inter-integrated Circuit (I2C) protocol is © a protocol for controlling multiple devices connected only on two wires. These two wires correspond to the SDA line in charge of data transmission and the SCL line in charge of sending watch timings. Below we can see a connection diagram of various devices that use i2c communication, where we can see that only use these two lines and of course the vcc and GND feed. Link to the I2C protocol with Arduino Within this I2C communication bus, there may be several masters and slaves or a lord and several slaves. The key © each of these devices has a unique feature, so it is © communicate using only the two lines. As we can see, both SDA and SCL lines are open collector lines, so you should always put two positive resists (PULLUP) to ensure high state on both lines. In a previous ENTRY of this web application we explain in detail how it works I2C protocol that can apply um microcontroller any. These are the bases for you to learn how to use Arduino I2C and understand the workings that are underneath this.However sinful, I summarize the workings of I2C in the following video: How to find I2C Address Each device uses or communication protocol I2C has an address inside the communication bus. This direct address tem times can be read physically in circuit some pins um negative, or bypassing some inputs. Everything or that aserÂ© disponivel to melhorar a folha de dice do device that we want to connect via I2C with Arduino. Or seizure of sins, if it is not positionÂ\vel to get the datasheet, it can be to find out the address Â3nean I2C of the device by programming the C ÂÂÂo-Say ARDUINO THAT I LEFT TO THE END OF THIS POST and POST and check the Directory on the Serial Monitor, as shown in the video below. The connection of any I2C device must respect the following pins depending on the board you have LCD to I2C Adapter Arduino Uno, Nano, Mini. Arduino Mega â, TWO Arduino Leonardo to MEIO; GND GND GND GND to ME160; VCC 5V 5V ÂV NIA ME160; SDA A4 20 to 150A; SCL A5 21 To use or truck I2C on Arduino, the IDE Arduino Standard gives us the libla reron a (library) known: uesuesuesuessa. h Â forasteoso, which contains the functions needed to control or built-in hardware. There are other libraries more advanced than Wire. h to handle the I2C bus in Arduino, such as I2Cdevlib or I2C library. LCD interface via I2C For example, let's use one of the most popular modules that we use communication in I2C, and it's the LCD interface module via I2C. The advantage of using this m ÂÂ3dulo is that we will be able to emos emos connect an LCD using or only two 1111 Arduino and the power supply. If you saw the entry of I2C PIC or watched the video of this post, you will know that every DELES has a Direct CÂÂnica n ÂÂnica of the Protocol, in this case the I2C LCD of it has three pins that serve to physically establish your home. By connecting these pins by welding, we can set the direction of ©. These three pins correspond to the least significant bits of the I2C address of the content. Binomary 0x3F would be: 0|0|1|1|1|1|A2|A1|A0 and 0x27: 0|0|1|0|0|0|0|0|A2|A1|A1|A0. Or we can© also use the code above to discover your home office. LCD with Arduino I2C We can find many libraries to manipulate the LCD of the Arduino I2C. In this case, we will use the LiquidCrystal I2C that has functions similar to the arduino IDE library itself. LiquidCrystal\_I2CÂ lcd(lcd\_Addr, lcd\_cols, lcd\_rows) FunciÂÂÂn constructor, crea un objeto de la clase LiquidCrystal\_I2C, con direcciÂÂÂn, columnas y filas indicated. lcd.init() Boot el modulo LCD adapter a I2C, this funciÂÂÂn internally configures and initials el I2C y el LCD. lcd.clear() Borra la pantalla LCD y posiciona el cursor en la esquina superior izquierda (posiciÂÂÂn (0.0)). lcd.setCursor(col, row) Posiciona el cursor del LCD en la posiciÂÂÂn indicated by col y row(x,y); lcd.print() Escribe un texto o mensaje en el LCD. lcd.scrollDisplayLeft() Se desplaza el contenido de la pantalla (texto y el cursor) un espacio hacia la izquierda. lcd.scrollDisplayRight() Se desplaza el contenido de la pantalla (texto y el cursor) un espacio a la derecha. lcd.backlight(); Turns on the lcd.noBacklight() LCD backlight; Turn off the LCD Backlight Example LCD I2C Arduino We will configure the following circuit and check the operation© of a connected display through the I2C communication Below I show you how you can simulate the i2c arduino communication protocol with Proteus. In the proteus scheme you can see how the LCD-I2C module is © internally. Proteus Arduino Circuit with I2C LCD Interface Below is the example code LCD I2C together with the code to determine the I2C address of any Arduino device to download it completely grant. >> Download câ "I say and circuit in Proteus



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