

Keypad experiment

Overview



This lesson will teach you how to use Keypad module, which is simple and easy to use.

Specification

Null

Pin definition

Keypad MEGA 2560 UP D38 D40 D42 D44 D46 D48 D50 DOWN D52

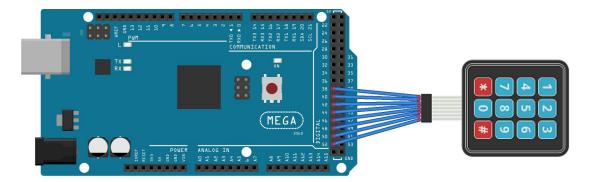
Hardware required

Material diagram	Material name	Number
	Keypad	1
	USB Cable	1
	MEGA 2560	1
	Breadboard	1
	Jumper wires	Several

1



Connection diagram







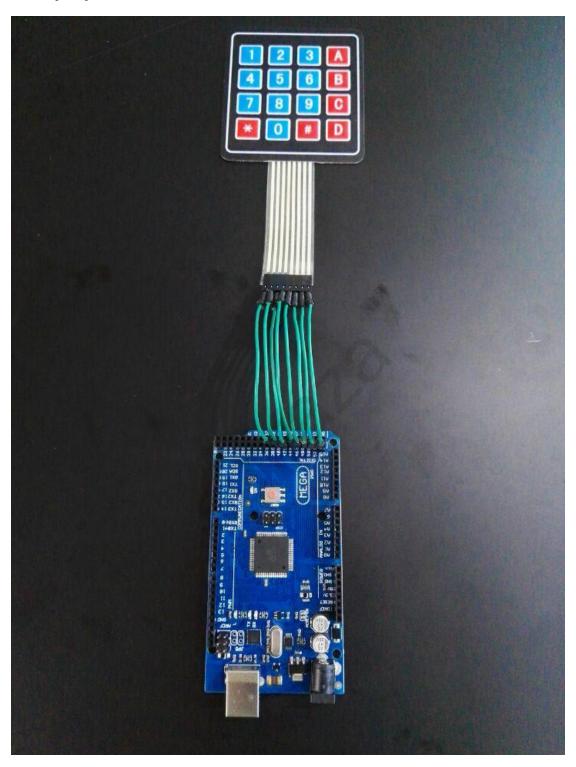
Sample code

}

Note: sample code under the **Sample code** folder You need to add the **Keypad** to the Arduino library file directory, otherwise the compiler does not pass. Please refer to 'How to add library files.docx'. #include < Keypad.h > const byte ROWS = 4; //four rows const byte COLS = 4; //four columns //define the cymbols on the buttons of the keypads char hexaKeys[ROWS][COLS] = { {'1','2','3','A'}, {'4','5','6','B'}, {'7','8','9','C'}, {'*','0','#','D'} **}**; byte rowPins[ROWS] = {38, 40, 42, 44}; //connect to the row pinouts of the keypad byte colPins[COLS] = {46, 48, 50, 52}; //connect to the column pinouts of the keypad //initialize an instance of class NewKeypad Keypad customKeypad = Keypad(makeKeymap(hexaKeys), rowPins, colPins, ROWS, COLS); void setup(){ Serial.begin(9600); void loop(){ char customKey = customKeypad.getKey(); if (customKey){ Serial.println(customKey); }

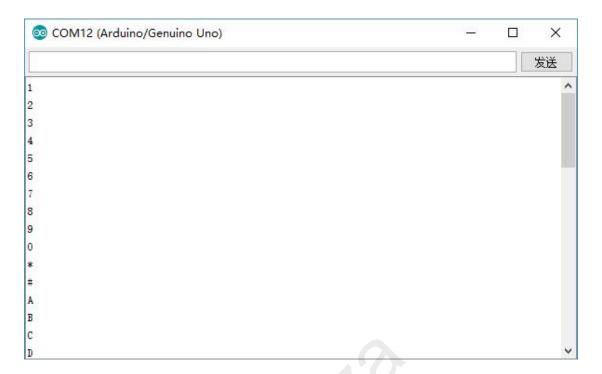


Example picture





Result



5



Language reference

Tips: click on the following name to jump to the web page. If you fail to open, use the Adobe reader to open this document. byte

Application effect

Open the serial port, and then press one of the buttons and the serial port monitor will be displayed.

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