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REF: C11-4X4MKMA

4x4 Matrix Keyboard Module for Arduino



Diagram 1.0

Description

A 4x4 Matrix Keypad is a compact input device used to capture user inputs in electronic projects. It consists of 16 tactile pushbuttons arranged in a 4x4 grid. Each key press connects a specific row to a column in a matrix configuration, allowing for efficient use of microcontroller pins. Keypads are commonly used in applications such as numeric entry, menu navigation, and control panels. The compact design and straightforward interfacing make it a popular choice for a variety of electronics projects.

Specifications

- Switch Type: 4x4 Matrix
- Contact Style: Tactile Pushbutton
- Termination Style: Male 1 x 8 header
- Dimensions: 43 mm x 39 mm (1.7" x 1.54")
- Number of Keys: 16 (arranged in 4 rows and 4 columns)
- Operating Voltage: 3.3V to 5V
- Connection Pins:
 - Rows: R1, R2, R3, R4
 - Columns: C1, C2, C3, C4



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Pin diagram



Library

Install the Keypad Library.

💿 Library Manager	×
Type All 🗸 Topic All 🗸 keypad	
KeyMatrix	
by Gonçalo Baltazar Version 1.0.0 INSTALLED KeyMatrix is poll event library for matrix keypads. It includes various alphanumeric modes to process text on phone-lik keypads. More info	e
Keypad by Community https://github.com/ChrisA/Keypad Version 3.1.1 INSTALLED Keypad is a library for using matrix style keypads with the Arduino. As of version 3.0 it now supports mulitple keypressed library is based upon the Keypad Tutorial. It was created to promote Hardware Abstraction. It improves readability of the by hiding the pinMode and digitalRead calls for the user. More info Select version v	
LCD03 by Ben Arblaster A library for I2C control of the LCD03 20x4 and 16x2 serial LCD modules from Robot Electronics. It aims to maintain compatibility with the Arduino LiquidCrystal library (version 0017 onwards) , though some features of LiquidCrystal are or	nmited
	Close



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Circuit

Connect both LCD and Keypad Module as image below.



Upload the code provided

- 4x4_Matrix_Keyboard_Module_for_Arduino_Coding
- 4x4 Matrix Keyboard Module for Arduino Datasheet.docx
- 📥 4x4 Matrix Keyboard Module for Arduino Tutorial.mp4

Sample_Coding.txt