SYNACORP TECHNOLOGIES SDN. BHD. (1310487-K)
No.25 Lorong 1/SS3, Bandar Tasek Mutiara,
14120 Simpang Ampat, Penang, Malaysia.
T: +604.586.0026 F: +604.586.0026
www.synacorp.my | Email: sales@synacorp.com.my

REF: C11-4X4MKMA

4x4 Matrix Keyboard Module for Arduino

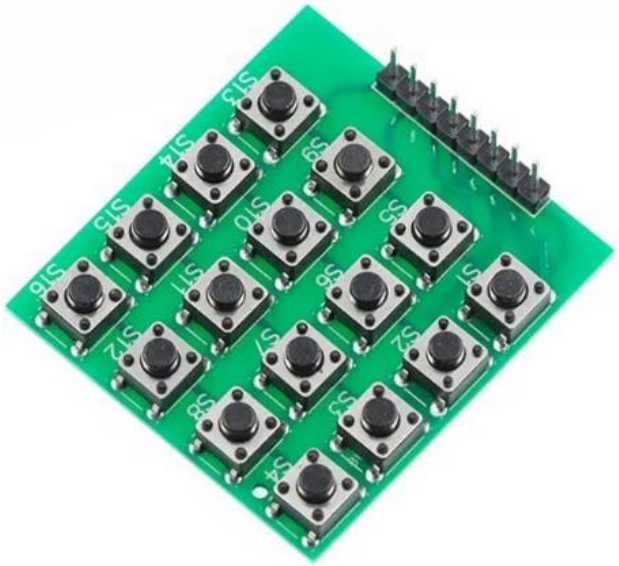


Diagram 1.0

Description

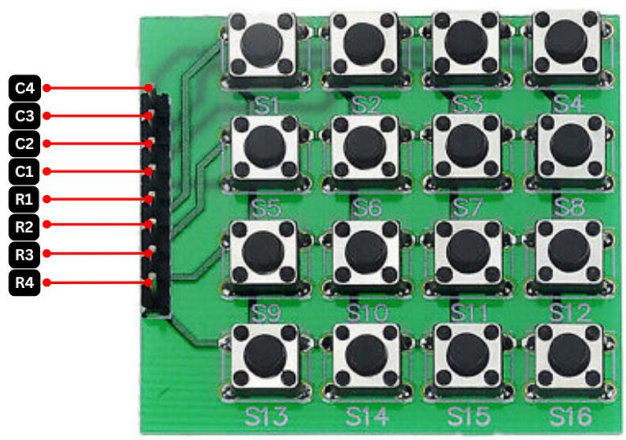
A 4x4 Matrix Keypad is a compact input device used to capture user inputs in electronic projects. It consists of 16 tactile pushbuttons arranged in a 4x4 grid. Each key press connects a specific row to a column in a matrix configuration, allowing for efficient use of microcontroller pins. Keypads are 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

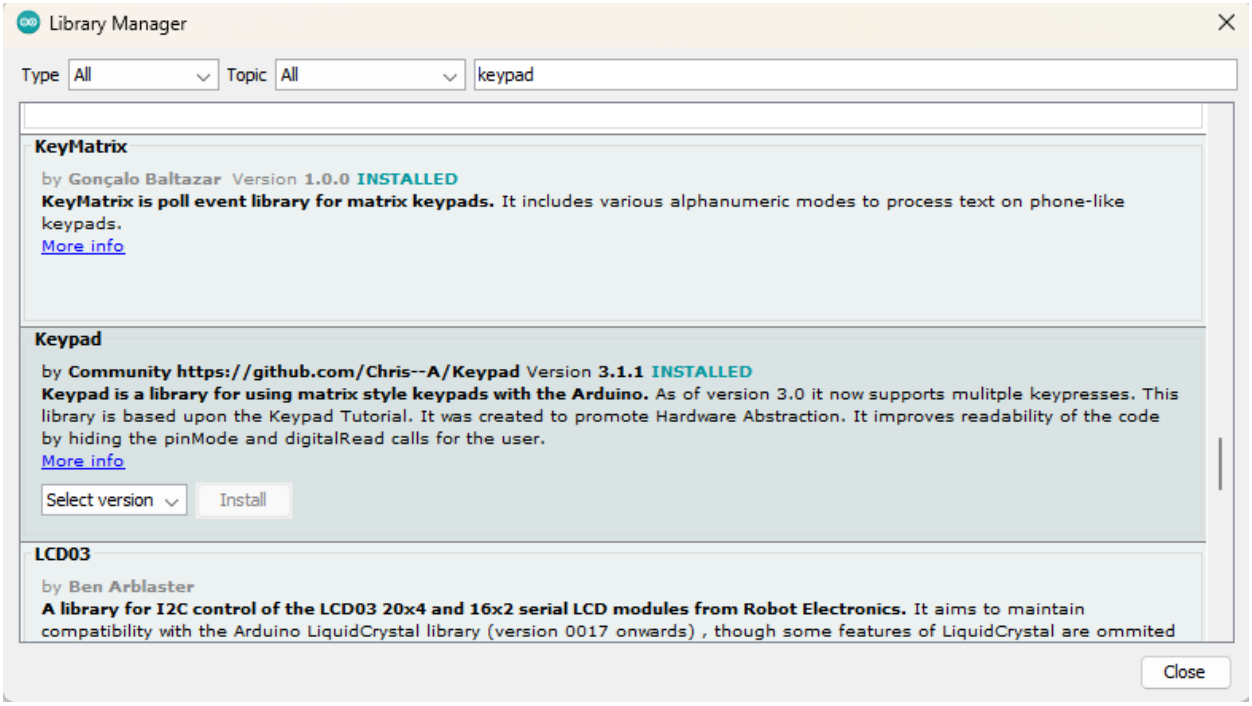
Pin diagram

C4
C3
C2
C1
R1
R2
R3
R4



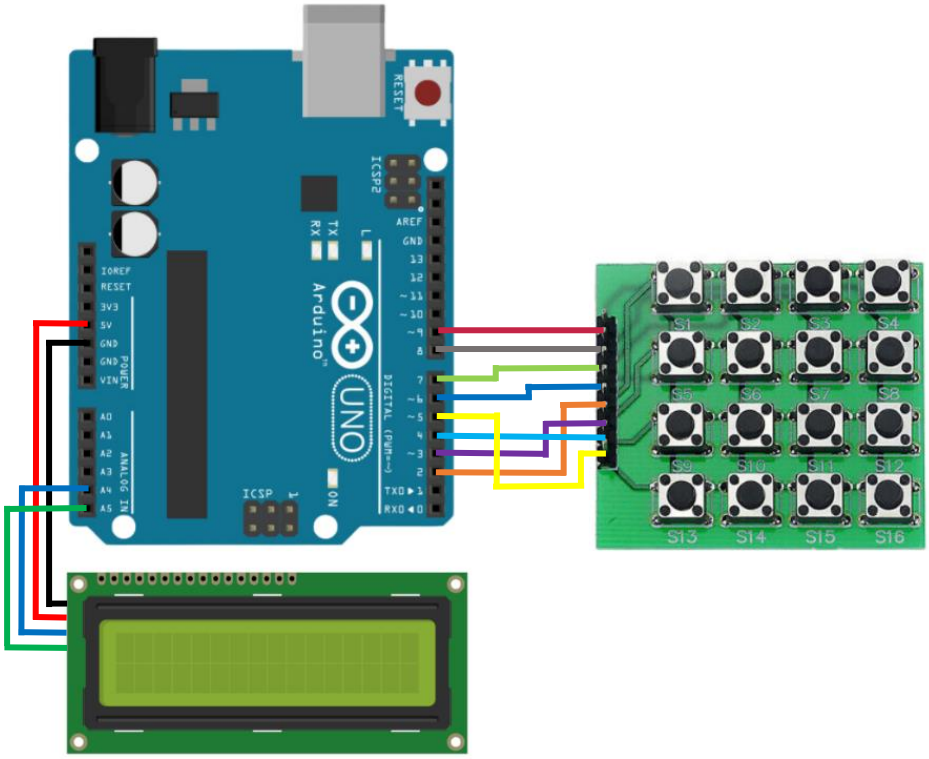
Library

Install the Keypad Library.



Circuit

Connect both LCD and Keypad Module as image below.



Upload the code provided