

## LCD KEYPAD SHIELD



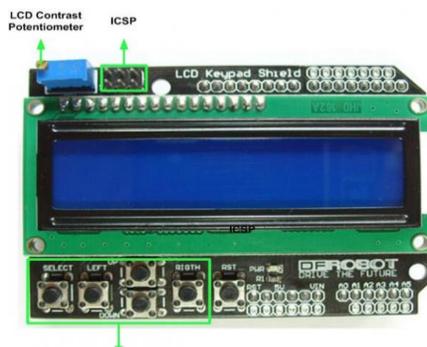
### **Applications:**

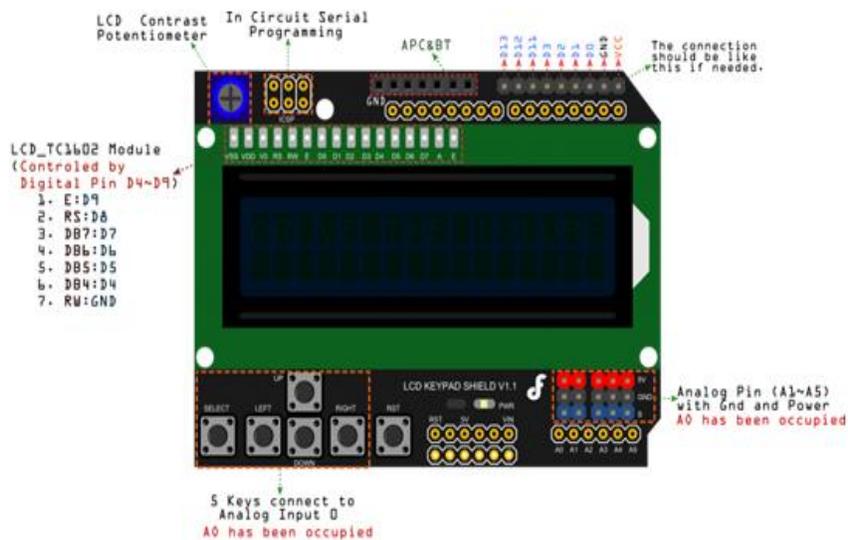
The LCD Keypad shield is simple to use as it is fully equipped with the Arduino "Liquid Crystal" library which is developed for Arduino compatible boards, to provide a user-friendly interface. Sometimes, it is called as navigation shield because it comes with 6 momentary push buttons for menu navigation and includes a 2x16 LCD. Besides displaying messages, it also allows users to go through and display the menu, make selections using the buttons and etc. This LCD1602 consists of a white character blue backlight LCD and a 6 Button Keypad, extremely useful for controlling projects without hooking the Arduino board up to anything. The keypad consists of 5 keys — select, up, down, right and left. To save the digital IO pins, the keypad interface uses only one ADC channel. The key value is read through a 5 stage voltage divider.

### **Technical Specifications:**

- Operating voltage : 5V ( 4.5Vdc < V < 5.5Vdc )
- Current consumption : 20mA (Max : 40mA)
- PCB size : 80mm X 58mm
- Uses Arduino LCD 4Bit library.
- Plug and Use with Arduino main board, no solder or fly-wiring needed.
- 2x16 LCD.
- 6 push buttons.

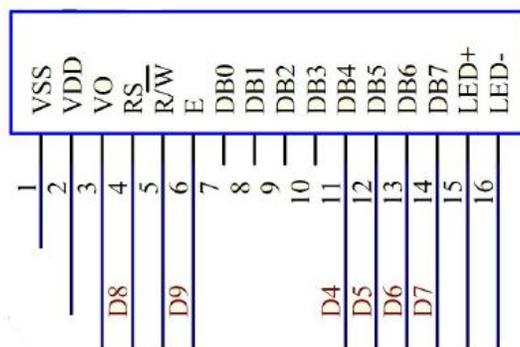
### **Pins Out :**





Pin	Function	Instruction
Analog 0	Button	(select, up, right, down and left)
Digital 4	DB4	Four higher order bidirectional tristate data bus pins.Used for data transfer and receive between the MPU and the LCD.
Digital 5	DB5	
Digital 6	DB6	
Digital 7	DB7	
Digital 8	RS	Data or Signal Display Selection
Digital 9	Enable	Starts data read/write
Digital 10	Backlight Control	-

**Schematic:**



**Dimensions:**

