



Raspberry PI LCD1602 Add-on

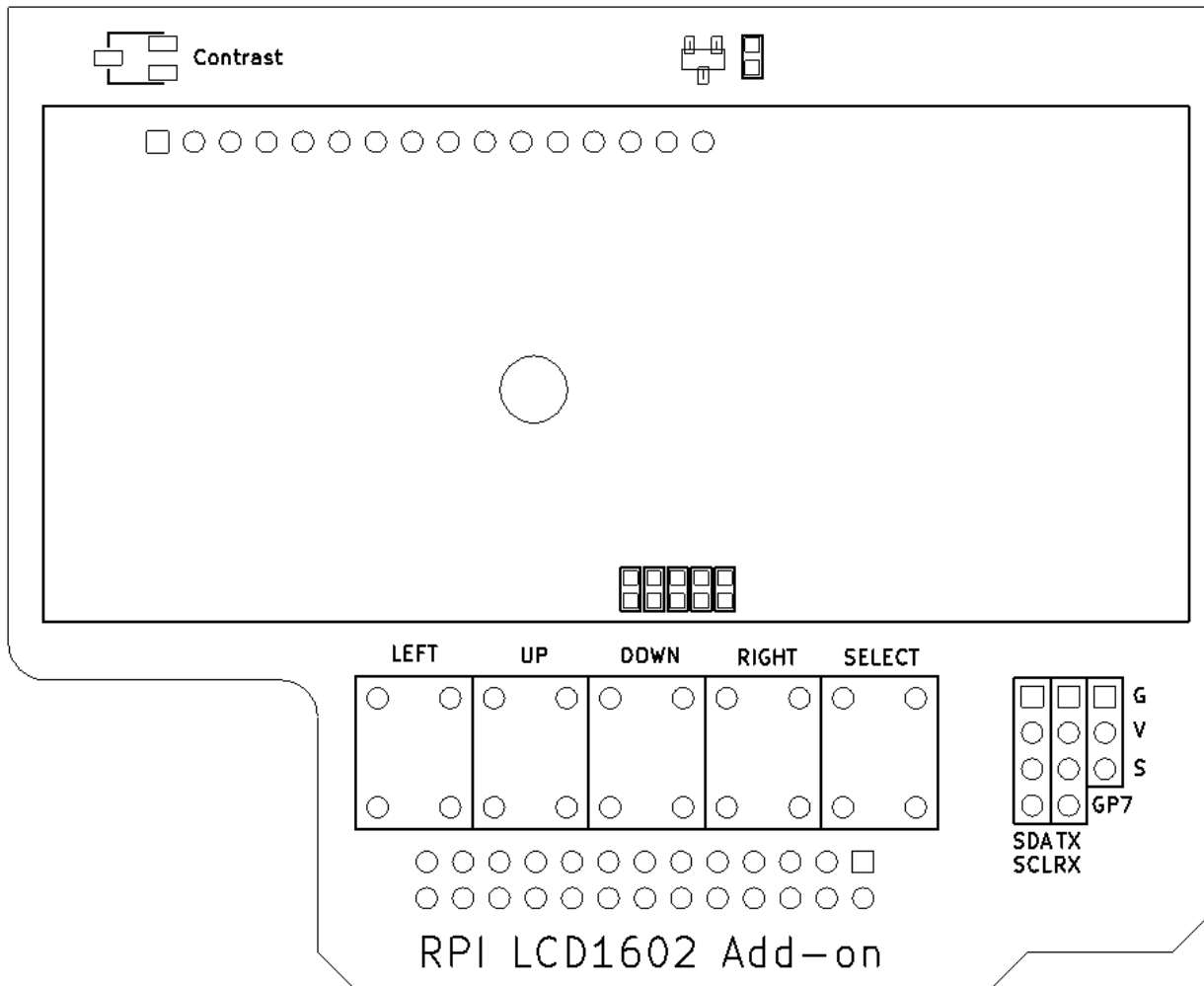
Overview

Raspberry PI LCD1602 Add-on is customized for Raspberry Pi interfaces based on LCD1602 display module. With GPIO's on Raspberry Pi, it can be used to control the contents to be displayed; with software, it can be used to control the backlight for on and off. Buttons on the module can be used to control cursor location on the screen. In addition, electronic brick interface can bring more expanded functions for the Raspberry Pi.

Specifications

PCB size	83.8mm X 68.6mm X 1.6mm
Input voltage	5V
Interface	Electronic brick interface
Contrast	Adjustable

Hardware



Pinmap

Raspberry PI Interfaces

Raspberry PI Pin N.O.	Pin name	Pin of LCD1602 Module	Description
11	GPIO0	D4	LCD1602 data cable
12	GPIO1	D5	
13	GPIO2	D6	
15	GPIO3	D7	
16	GPIO4	RS	Register selection cable
18	GPIO5	E	Enable
22	GPIO6	BLK control	Backlight control pin*
7	GPIO7	-	Electronic brick interface
3	SDA0	-	
5	SCL0	-	
24	CE0	LEFT BUTTON	Button output pin**



26	CE1	UP BUTTON	
19	MOSI	DOWN BUTTON	
21	MISO	RIGHT BUTTON	
23	SCLK	SELECT BUTTON	
8	TXD	-	Electronic brick interface
10	RXD	-	
2	+5V	-	
1	+3.3V	-	
6	GND	-	

* Backlight control pin: When GPIO6 outputs low level, backlight of LCD1602 is off.

** Button output pin: When the button is pressed down, it outputs low level; otherwise it outputs high level.

Contrast

1. Contrast

Contrast of the screen can be adjusted by rotating the potentiometer.

Revision Record

Version	Description	Written by	Date
v1.0	Initial Edition	Stan Lee	27 th , Dec., 2013