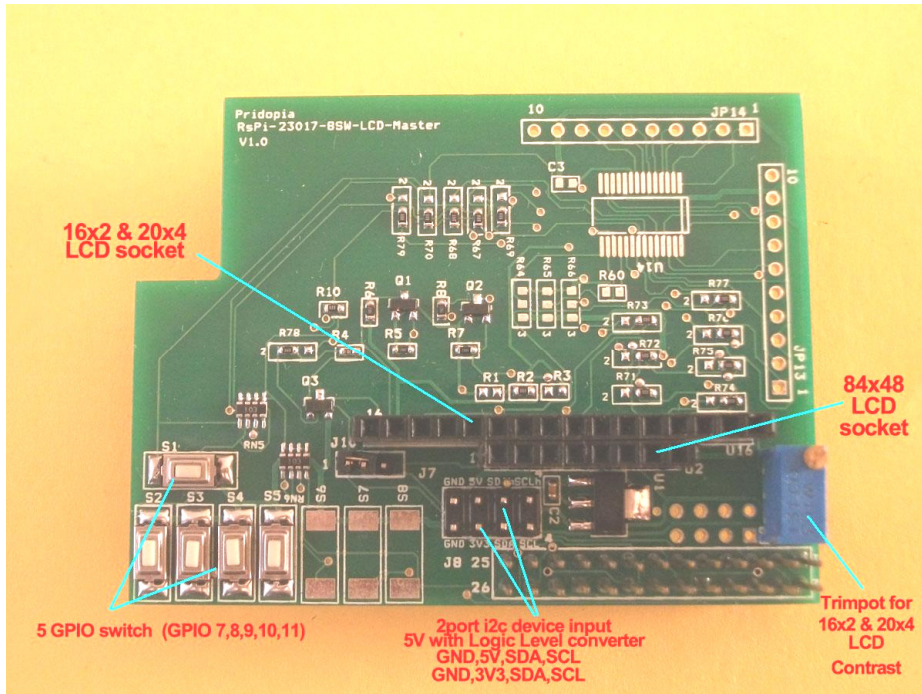


## RsPi- 84x48 GPIO LCD Master Board User Manual



1. 5 GPIO (7,8,9,10,11) Micro Switch
2. back light control circuit can control by software
3. software LCD contrast control for 84x48 pixels LCD
4. support our Scratch control driver
5. 2 i2c device input port J7 (GND, 5V,SDA,SCL) & J8 (GND,3V3,SDA,SCL) J7 with Logic Level converter
6. build-in 3v3 power regulator provide 3v3 to 84x48 LCD
7. 10k Trimpot for 16x2 & 20x4 LCD contrast control
8. GPIO interface for 16x2 & 20x4 LCD
9. GPIO interface for 8x48 LCD  
Din = GPIO 23 , SCLK = GPIO 24, DC = GPIO 22 ,RST = GPIO 17 , CS =GPIO 27
10. J10 2-3 84X48 LCD back light always ON, 1-2 control by GPIO18

Test Program can be download from our web site  
<http://www.pridopia.co.uk/pi-8448-LCD-master.html>  
pcd8544.tar -- C & Python code for 84x48 LCD

Pi\_Scratch interface software download from our web site  
<http://www.pridopia.co.uk/rs-pi-set-scratch.html>

Install GPIO Library for software

<https://pypi.python.org/pypi/RPi.GPIO> GPIO library

GPIO library - RPi.GPIO-0.5.3a.tar.gz

WiringPi LCD library 84x48 LCD library

<http://wiringpi.com/>

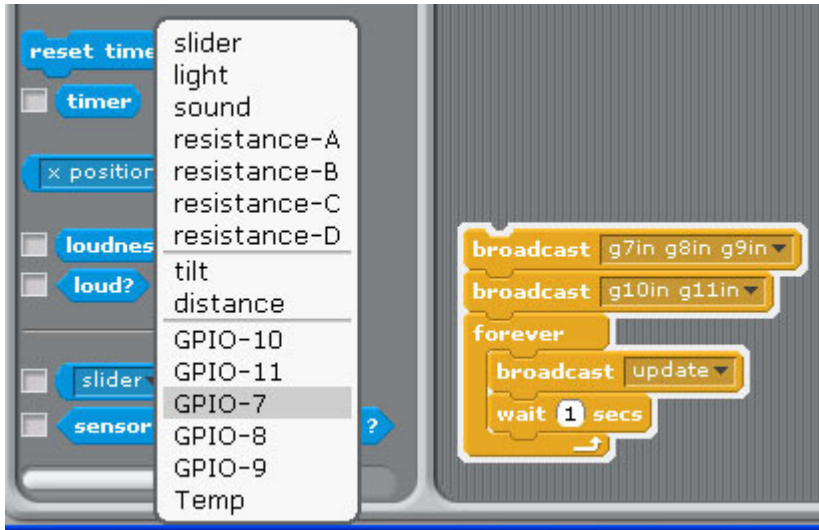
Install python , library and run the test program

```
# sudo apt-get install python-dev
# wget http://www.pridopia.co.uk/pi-pgm/RPi.GPIO-0.5.3a.tar.gz
# gunzip RPi.GPIO-0.5.3a.tar.gz
# tar -xvf RPi.GPIO-0.5.3a.tar
# cd RPi.GPIO-0.5.3a
# sudo python setup.py install
# sudo python xxx.py (xxx.py it's your test program)
```

### Package Content

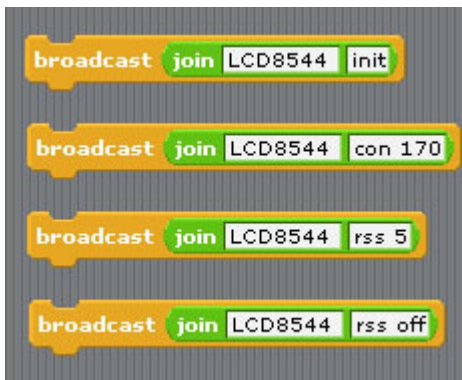
1x Rs-Pi 84x48 GPIO LCD Master board  
1x 84x48 pixels monochrome LCD  
1x manual

(1) 5 GPIO Switch GPIO 7,8,9,10,11



1. Setting GPIO 7,8,9,10,11 as input
2. broadcast "Update"
3. in Sensing --> Slider , you will see the GPIO-7 ,8, 9, 10, 11 in the list

(2) LCD 84x48 Top 5 news from BBC RSS



- command "LCD8544 init" initial GPIO 84x48 LCD
- command "LCD8544 con 170" (0 -255)" LCD contrast
- command "LCD8544 "rss"+ " speed" Active RSS function (need have internet)
- LCD8544 rss 5 speed (1 to 20 - 1 is fast , 20 is slow)
- command "LCD8544 rss off" stop RSS function

(3) command



- command "LCD8544 " + "init" initial 84x48 LCD
- command "LCD8544 " + "con " + " (0 -255)" LCD contrast
- command "LCD8544 " + "bl " + "on/off" LCD back light ON / OFF
- command "LCD8544 " + "cls" clean screen
- command "LCD8544 " + "X , Y " + " MESSAGE" Display message to LCD in location x,y
- command "LCD8544 " + "X , Y " + " wip" Display WiFi IP to LCD in location x,y
- command "LCD8544 " + "X , Y " + " eip" Display Ethernet IP to LCD in location x,y
- command "LCD8544 " + "X , Y " + " time" Display Time to LCD in location x,y
- command "LCD8544 " + "X , Y " + " date" Display Time to LCD in location x,y
- command "LCD8544 " + "X , Y " + " ram" Display RAM usage in location x,y
- command "LCD8544 " + "X , Y " + " wifi" + " ip" Display WiFi IP in location x,y
- command "LCD8544 " + "X , Y " + " wifi" + " ssid" Display WiFi SSID in location x,y
- command "LCD8544 " + "X , Y " + " wifi" + " gsig" Display wifi signal with bar chart in location x,y