Raspberry PI 2.8 TFT Add-on

Overview

Raspberry PI 2.8 TFT Add-on is customized for Raspberry Pi based on 2.8 TFT LCD display module. The screen is driven based on an 8-bit data bus and a 4-bit ILI9323DS to control bus interface, which can display 263K colors. Module controls contents to be displayed via GPIO on Raspberry Pi. With touch function, it can be used to display the desktop of Raspberry Pi and realize clicking, touch and feedback.

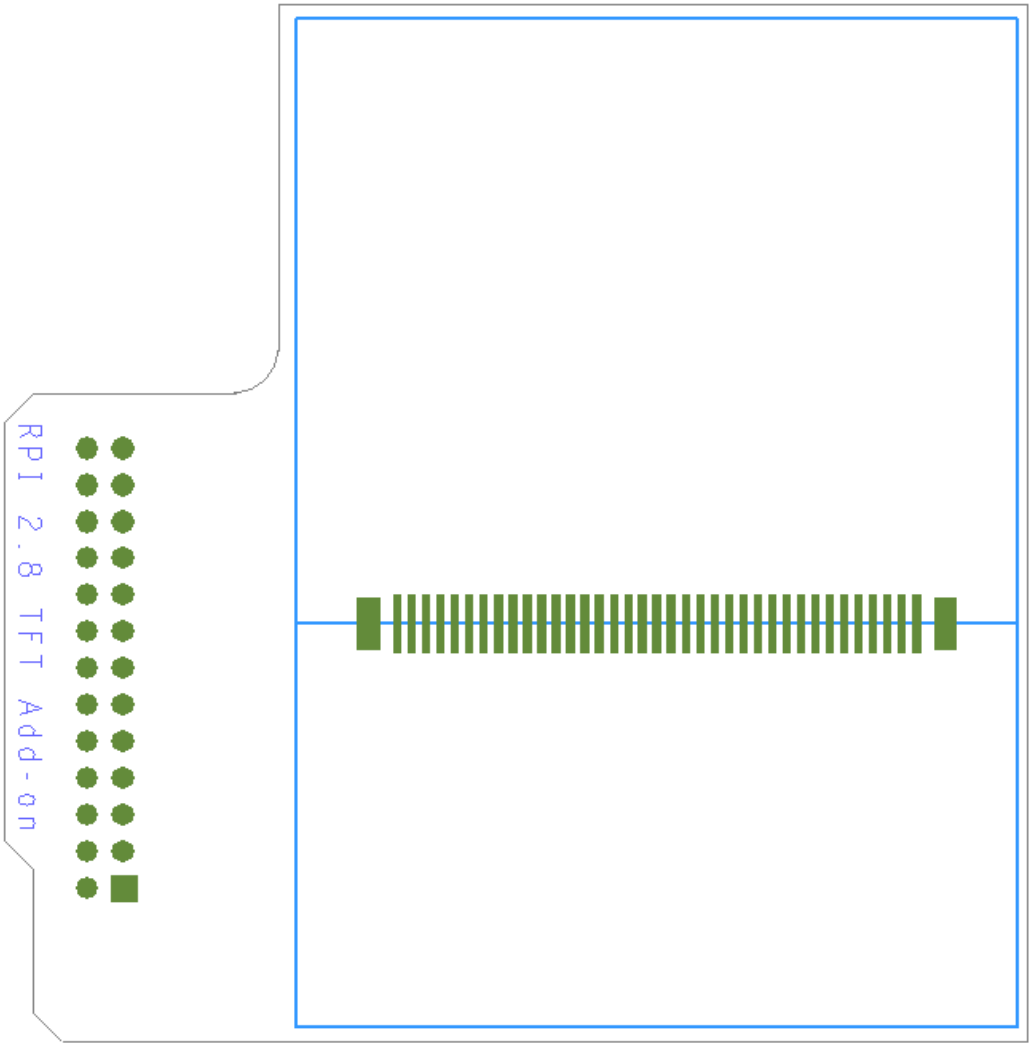
Specifications

PCB size	72.0mm X 71mm X 1.6mm
Input voltage	3.3V
Screen size	2.8”
Resolution	240x320
Backlight	LED
Color	262K
Driver chip	ILI9325DS

Electrical characteristics

Parameter	Min.	Typical	Max.	Unit
Supply voltage	-	3.3	3.6	VDC
Current consumed (average)	-	20	40	mA
Input voltage VinH	3	3.3	3.6	V
Input voltage VinL	-0.3	0	0.5	V
Output voltage VoutH	3	3.3	3.6	V
Output voltage VoutH	-0.3	0	0.5	V

Hardware



Pinmap

Raspberry PI interfaces

Raspberry PI Pin N.O.		Pin name	Pin of 2.8 TFT	
11	PI16	GPIO0	DB10	19
12	PI17	GPIO1	DB11	20
13	PI18	GPIO2	DB12	21
15	PI19	GPIO3	DB13	22
16	PI20	GPIO4	DB14	23
18	PI21	GPIO5	DB15	24
22	PG0	GPIO6	DB16	25
7	PI15	GPIO7	DB17	26
3	PB19	SDA0	RS	16

5	PB18	SCL0	WR
24	PI10	CE0	CS
26	PI14	CE1	TOUCH_CS
19	PI12	MOSI	TOUCH_DIN
21	PI13	MISO	TOUCH_DOUT
23	PI11	SCLK	TOUCH_DCLK
8	PG10	TXD	RST
10	PG11	RXD	TOUCH_IRQ
2		+5V	-
1		+3.3V	3.3V
6		GND	GND

Revision record

Version	Description	Written by	Date
v1.0	Initial Edition	Stan Lee	15th, Jan., 2014