

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.

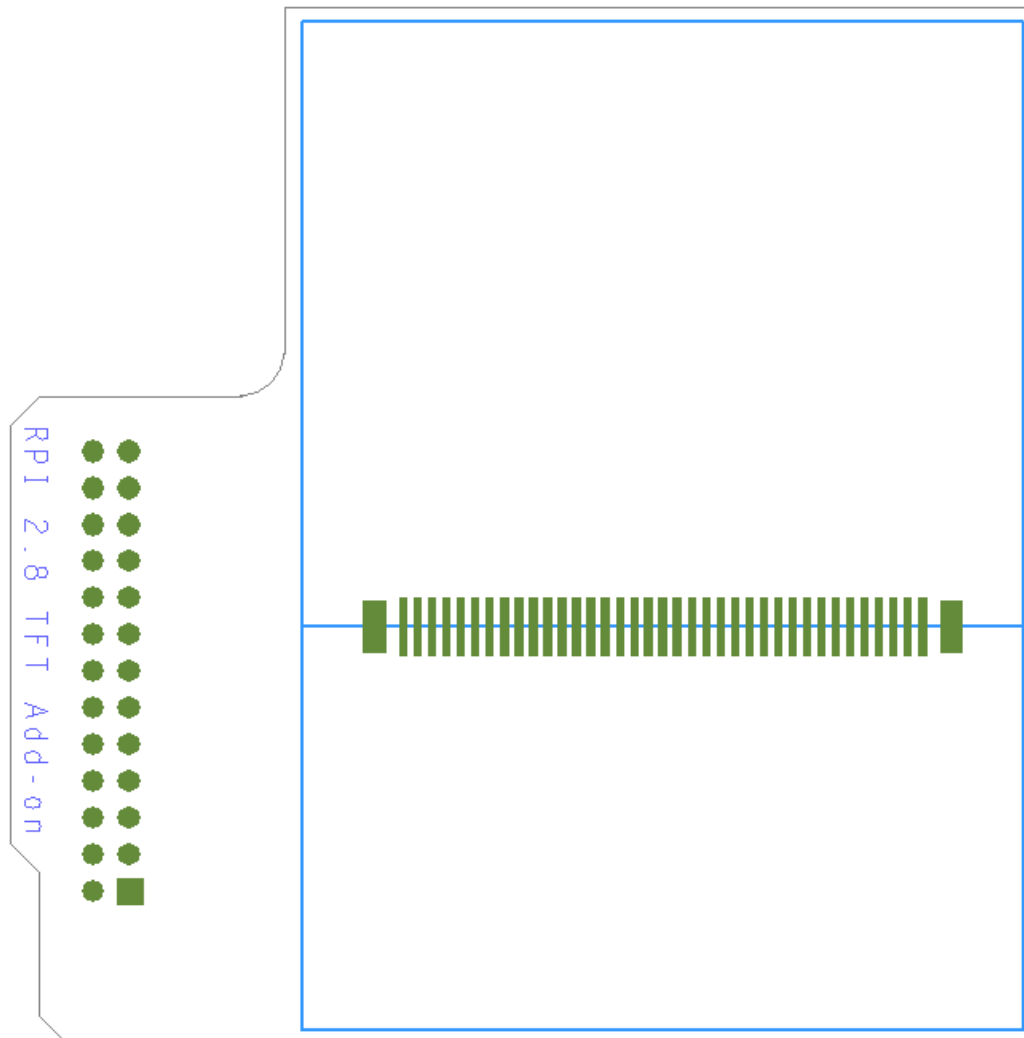
Specifications

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 VoutL	-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=78	GPIO0	DB10 19
12 PI17=77	GPIO1	DB11 20
13 PI18=76	GPIO2	DB12 21
15 PI19=75	GPIO3	DB13 22
16 PI20=119	GPIO4	DB14 23
18 PI21=120	GPIO5	DB15 24
22 PG0=79	GPIO6	DB16 25
7 PI15=138	GPIO7	DB17 26
3 PB19=68	SDA0	DC RS 16



5	PB18=67	SCL0	WR
24	PI10=109	CE0	CS
26	PI14=137	CE1	TOUCH_CS
19	PI12=111	MOSI	TOUCH_DIN
21	PI13=112	MISO	TOUCH_DOUT
23	PI11=110	SCLK	TOUCH_DCLK
8	PG10=89	TXD	RST
10	PG11=90	RXD	TOUCH_IRQ
2	+5V	-	-
1	+3.3V	3.3V	3.3V
6	GND	GND	GND

Revision record

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