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CERT. No.: 282Q19070712006



CERT. No.: 282E19070712007

Product Specification

Model: TBF050HD-01C

5.0" TFT Display Module (800*480)

This module uses RoHS material

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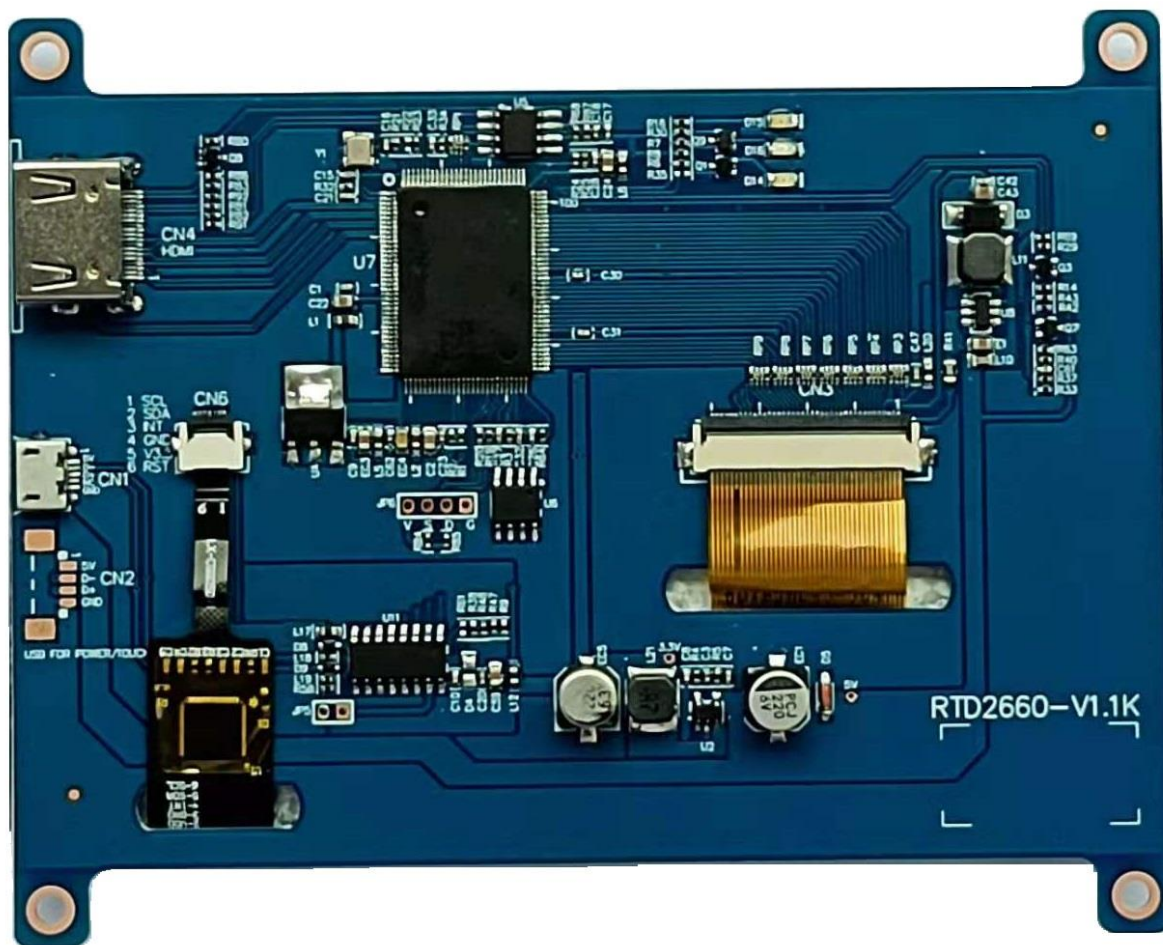
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1. GENERAL DESCRIPTION (整体概述)

TBF050HD-01C is a 5.0inch LCD display driver board; supports HDMI input; support capacitive touch panel.

TBF050HD-01C 是一个 5.0 寸 LCD 显示驱动板；支持 HDMI 输入；支持电容屏：

2. FUNCTION LAYOUT (产品外观图)



(The color of actual item may vary and the image is only for reference.)

实物颜色可能与此图有出入，此图仅供参考

3. FEATURES (产品特征)

Below you will find the detailed features.

MAIN CHIPSET 主芯片	RTD2660H		
OSD LANGUAGE OSD 语言	Chinese, English, (French, Spanish, Italian, German, Portuguese, Dutch, Korean) (Option) 中文, 英语 (法语, 西班牙语, 德语, 日语)		
VIDEO INPUT 视频输入	PC-RGB	Format	Up to 1920*1080@50HZ
		Color	16bit, 24bit, 32bit
	HDMI	Format	Up to 1920*1080@50HZ
		Operating Speed	155MHz
AUDIO OUTPUT 音频输出	Frequency response		
	Output power		
TOUCH	Interface	USB	
	Touch Panel	6-wire capacitive touch panel	
POWER TO PANEL 驱屏电压	3.3V		
Management 电源管理	Standby Power Consumption < 0.2W (Board Only) 待机功耗< 0.2W (仅主板)		
KEY FUNCTIONS 按键功能			

4. INTERFACE DEFINITION (接口定义)

4.1 USB IN CONNECTOR(外接 USB 输入) CN1/CN2(MINI-USB2.0B/4PIN1.25 备选)

此部件备选 This part is optional

此插座为触摸控制的电脑接口 (This socket is a computer interface of touch controlled)

NO. (管脚)		SYMBOL	DESCRIPTION (描述)
CN1	CN2	板上丝印	
1	1	5V	+5V power drain from host USB port (+5V USB 电源)
2	2	D-	USB bus signal (USB 总线信号)
3	3	D+	USB bus signal (USB 总线信号)
4		NC	No connection
5	4	GND	signal ground(信号地)

4.2 HDMI IN CONNECTOR (HDMI 信号输入) CN4 (HDMI)

NO. 管脚	SYMBOL 板上丝印	DESCRIPTION (描述)
1-19	HDMI-19	HDMI standard interface (HDMI 标准接口)

4.3 CAPACITIVE TOUCH SCREEN CONNECTOR(电容触摸屏连接器) CN6(FPC6PIN0.5)

此部件备选 This part is optional

连接 USB 插座至电脑，触摸控制方可有效。(Connect USB interface to computer, touch control can be effective.)

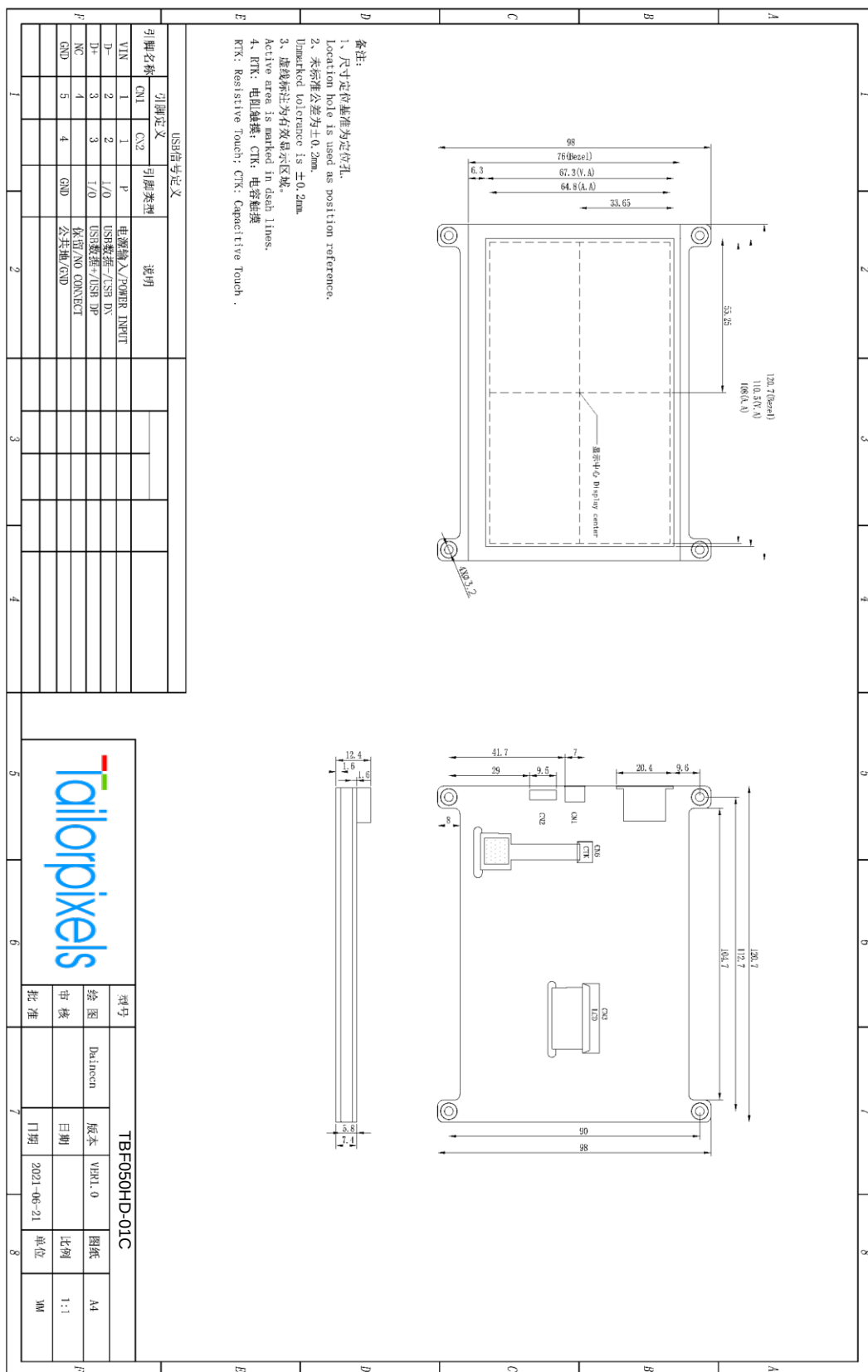
NO. (管脚)		SYMBOL	DESCRIPTION (描述)
CN5		板上丝印	
1		SCL	Capacitive touch panel SDA(电容触摸屏 SCL)
2		SDA	Capacitive touch panel SDA(电容触摸屏 SDA)
3		INT	Capacitive touch panel SDA(电容触摸屏 INT)
4		GND	signal ground(信号地)
5		V3.3	+3.3V power supply for capacitor screen
6		RST	Capacitive touch panel SDA(电容触摸屏 RST)

4.4 LCD PANEL INTERFACE（液晶屏接口）CN3 (FPC-40PIN-0.5)

NO. 管脚	SYMBOL 板上丝印	I/O	Function	Remark
1	VLED	P	Power for LED backlight (Cathode)	
2	VLED+	P	Power for LED backlight (Anode)	
3	GND	P	Power ground	
4	DVDD	P	Power for Panel	
5	R0	I	Red data (LSB)	
6	R1	I	Red data	
7	R2	I	Red data	
8	R3	I	Red data	
9	R4	I	Red data	
10	R5	I	Red data	
11	R6	I	Red data	
12	R7	I	Red data (MSB)	
13	G0	I	Green data (LSB)	
14	G1	I	Green data	
15	G2	I	Green data	
16	G3	I	Green data	
17	G4	I	Green data	
18	G5	I	Green data	
19	G6	I	Green data	
20	G7	I	Green data (MSB)	
21	B0	I	Blue data (LSB)	
22	B1	I	Blue data	
23	B2	I	Blue data	
24	B3	I	Blue data	
25	B4	I	Blue data	
26	B5	I	Blue data	
27	B6	I	Blue data	
28	B7	I	Blue data (MSB)	
29	GND	P	Power Ground	
30	DCLK	I	Sample clock	
31	DISP	I	Display on/off	
32	HS	I	Horizontal Sync Input	
33	VS	I	Vertical Sync Input	
34	DE	I	Data Input Enable	
35	NC	-	No connection	

36	GND	P	Power Ground	
37	X1	I/O	Right electrode – differential	
38	Y1	I/O	Bottom electrode – differential	
39	X2	I/O	Left electrode – differential analog	
40	Y2	I/O	Top electrode – differential analog	

5. CONTROLLER DIMENSIONS (板卡结构图)



6. OPERATION REQUIREMENT (操作要求)

- (1) Do not pressed and distorted. 请勿挤压和弯曲。
- (2) Keep away from static and water. 远离静电和水。
- (3) Relative humidity : $\leq 80\%$ 相对湿度: : $\leq 80\%$
- (4) Storage temperature: $-20\sim+60^{\circ}\text{C}$ 储藏温度 : $-20\sim+60^{\circ}\text{C}$
- (5) Operation temperature: $-0\sim+40^{\circ}\text{C}$ 使用温度: $-0\sim+40^{\circ}\text{C}$