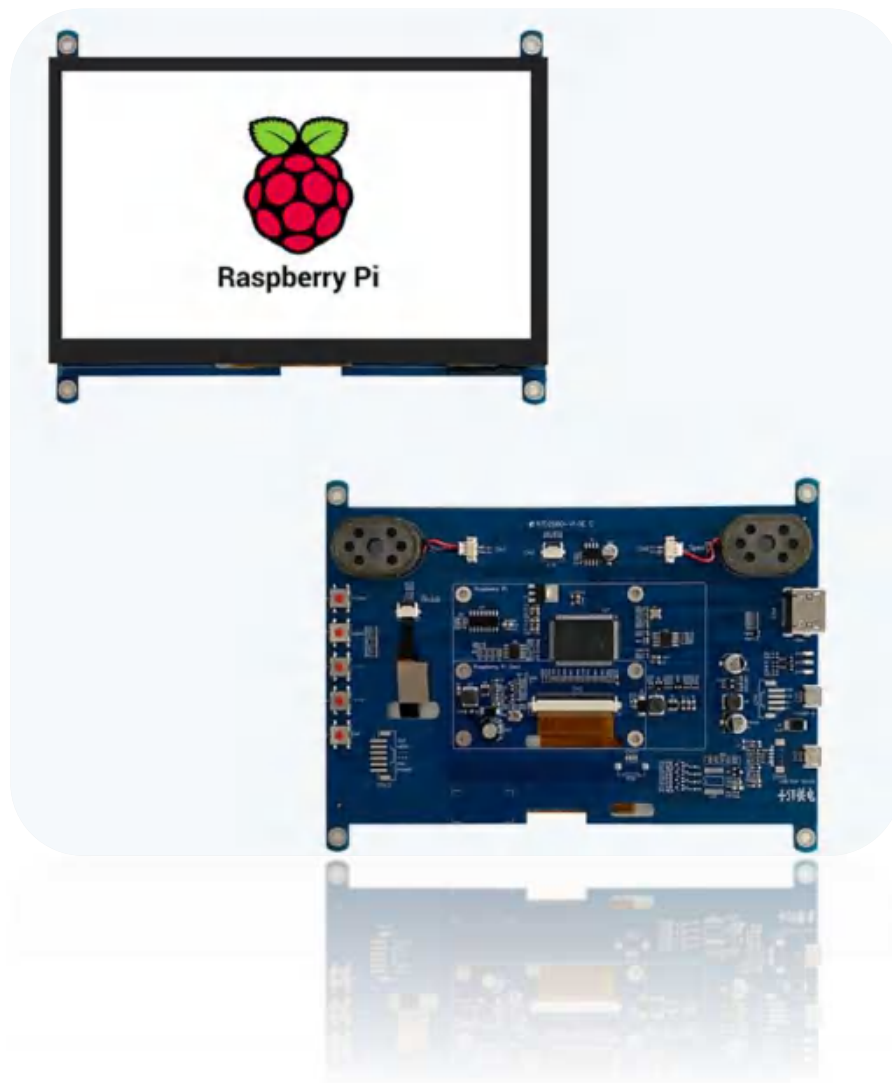


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Raspberry Pi Touch Module 7 inch



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1. GENERAL SPECIFICATION

This product is a 7 inch Raspberry PI LCD touch screen module, it supports below characteristics,

- a) HDMI input;
- b) I2S digital audio signal input
- c) speaker output
- d) 6-wire capacitive touch panel or 4-wire resistive touch panel (optional)

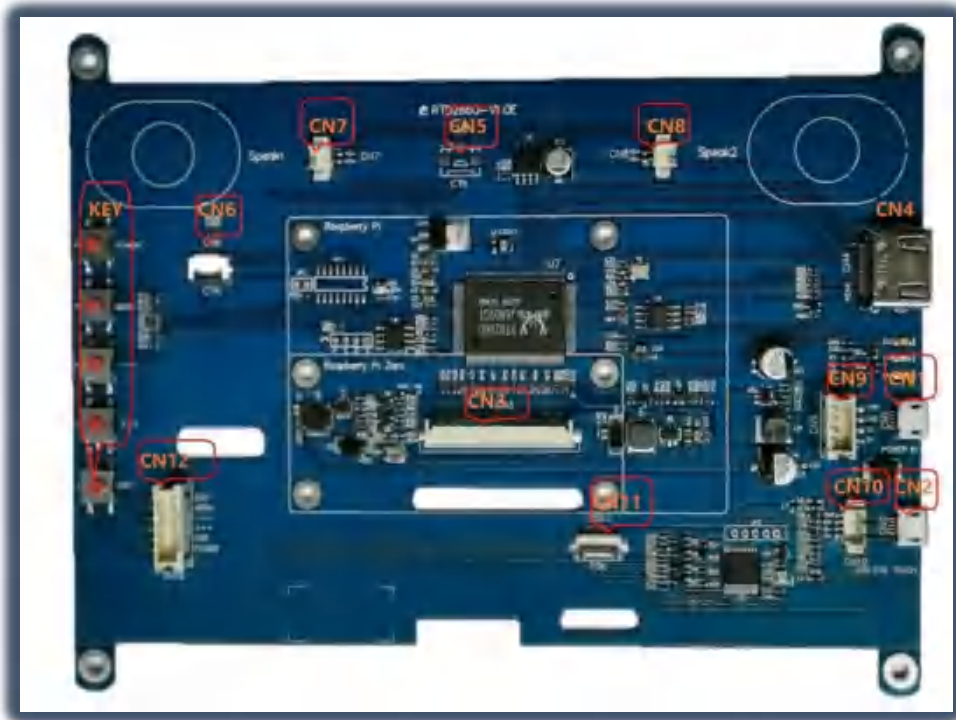
2. MAIN FEATURES

Chipset	RTD2660H		
OSD language	- Chinese - English French,Spanish,Italian,German,Portuguese,Dutch,Korean optional		
Video input	PC-RGB	Format	Up to 1920*1080@50HZ
		Color	16bit, 24bit, 32bit
	HDMI	Format	Up to 1920*1080@50HZ
		Operating speed	155MHz
Audio output	Frequency response	217Hz-20KHz @±3dB(1KHz 0dB reference signal)	
	Output power	2×1.2W(4Ω) THD+N<10%1KHz (Audio Input: 0.5VRMS)	
Touch screen	Interface	USB	
	Touch type	4 wire resistive touch screen	
		6 wire capacitive touch screen	
Power to panel	3.3V		
Management	Standby Power Consumption < 0.2W(Board Only)		
Keypad	MENU, LEFT, RIGHT, EXIT, ON/OFF		

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3. CONNECTOR INTERFACES



3.1 DC IN CONNECTOR (power supply) CN1/CN9 (Micro-USB2.0B/4PIN2.0 optional)

No.		SYMBOL	DESCRIPTION
CN1	CN9		
1	1,2	5V	+5V DC Power supply
5	3,4	GND	Ground
2,3,4		NC	No connection

3.2 External USB input CN2/CN10(Micro-USB2.0B/4PIN1.25 optional)

No.		SYMBOL	DESCRIPTION
CN2	CN10		
1	1	5V	+5V power drain from host USB port
2	2	D-	USB bus signal

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3	3	D+	USB bus signal
5	4	GND	Ground
4		NC	No connection

3.3 HDMI IN CONNECTOR CN4 (HDMI)

NO	SYMBOL	DESCRIPTION
1-19	HDMI-19	HDMI standard interface

3.4 SPEAKER INTERFACE (CN7/CN8(2PIN1.25))

No.		SYMBOL	DESCRIPTION
CN7	CN8		
1	1	V0-	Negative audio channel output
2	2	V0+	Positive audio channel output

3.5 CAPACITIVE TOUCH SCREEN CONNECTOR CN6/CN5 optional (FPC 6PIN 0.5mm)

No.		SYMBOL	DESCRIPTION
CN5	CN6		
1	5	SCL	--
2	6	SDA	--
3	3	INT	INTERRUPT
4	2	GND	GROUND
5	1	V3.3	Power supply 3.3V
6	4	RST	Reset

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3.6 RESISTIVE TOUCH PANEL CONNECTOR CN13/CN11(FPC 4PIN 1.0MM)

No.		SYMBOL	DESCRIPTION
CN13	CN11		
1	1	Y+	Up
2	2	X+	Right
3	3	Y-	Down
4	4	X-	Left

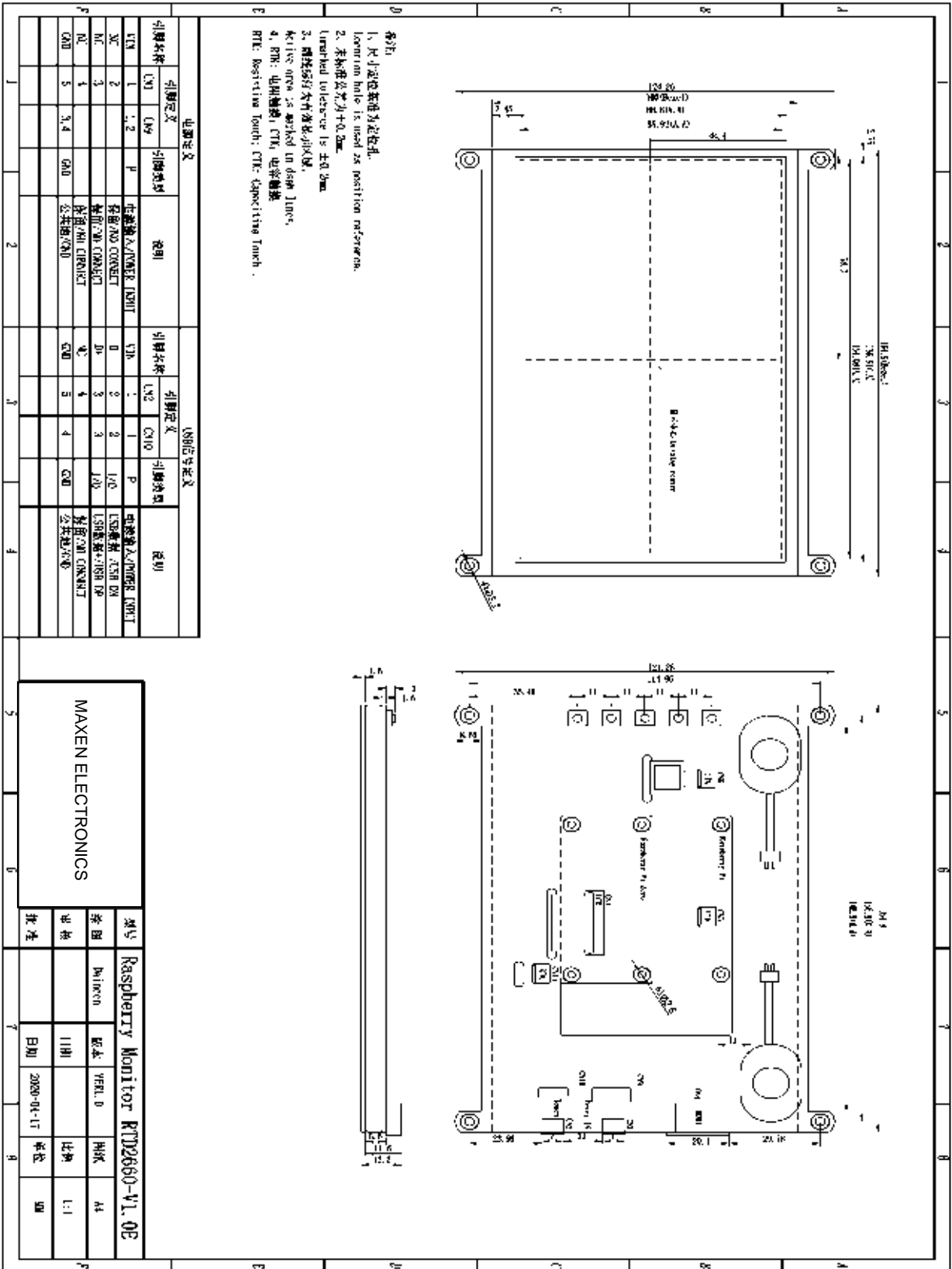
3.7 KEY K1,K2,K3,K4,K5 (SMD4J6*6)

NO	SYMBOL	DESCRIPTION
K1	EXIT	
K2	+	
K3	-	
K4	MENU	
K5	POWER	

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4. PRODUCT DRAWING



备注:
 1、尺寸单位为毫米及公差在±0.2mm
 Location hole is used as position reference.
 2、未标注公差为±0.2mm
 Unmarked tolerance is ±0.2mm
 3、圆角半径为所有边角均一致。
 R corner is marked in detail lines.
 4、RTK: 电阻触摸; CTX: 电容触摸
 RTK: Resistive Touch; CTX: Capacitive Touch.

电源定义				USB信号定义			
引脚名称	引脚定义	说明	引脚名称	引脚定义	说明	引脚名称	引脚定义
VCC	1, 2	电源输入/POWER INPUT	VIN	1	电源输入/POWER INPUT	VBUS	1
NC	2	空脚/NO CONNECT	D-	2	USB数据- /USB D-	D-	2
NC	3	空脚/NO CONNECT	D+	3	USB数据+ /USB D+	D+	3
NC	4	空脚/NO CONNECT	GND	4	公共地/GND	GND	4
GND	5, 4	公共地/GND					

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客户	Raspberry Monitor KTD2660-V1.0E	制图	版本	日期
名称	Maxen	审核	VERL 0	2020-04-17
批准		比例	1:1	单位
		图号	A4	

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5. OPERATION CONDITIONS

- a) Do not pressed and distorted.
- b) Keep away from static and water.
- 5. Relative humidity :≤80%
- 6. Storage temperature: -20~+60°C
- 7. Operation temperature: -0~+40°C