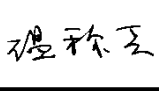


SPECIFICATION IOT FOR
MODULE NO. : TFT070A111R
Rev No. : 0

GTK	PREPARED BY	CHECKED BY	APPROVED BY
SIGNATURE			
DATE	2022.06.02	2022.06.02	2022.06.02

CUSTOMER APPROVAL	SIGNATURE	DATE

Notes:

1. Please contact GTK before assigning your product based on this module specification.
2. To improve the quality of product, this product specification is subject to change without any notice.

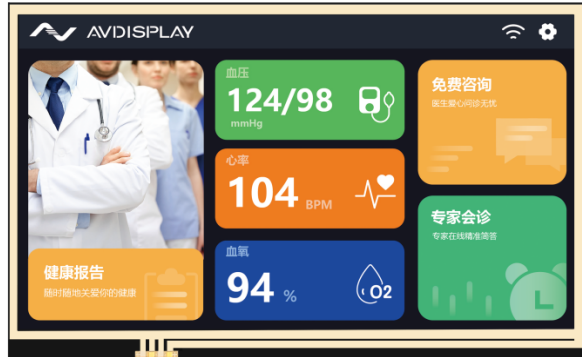
[illegible]

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1.MODULE DESCRIPTION

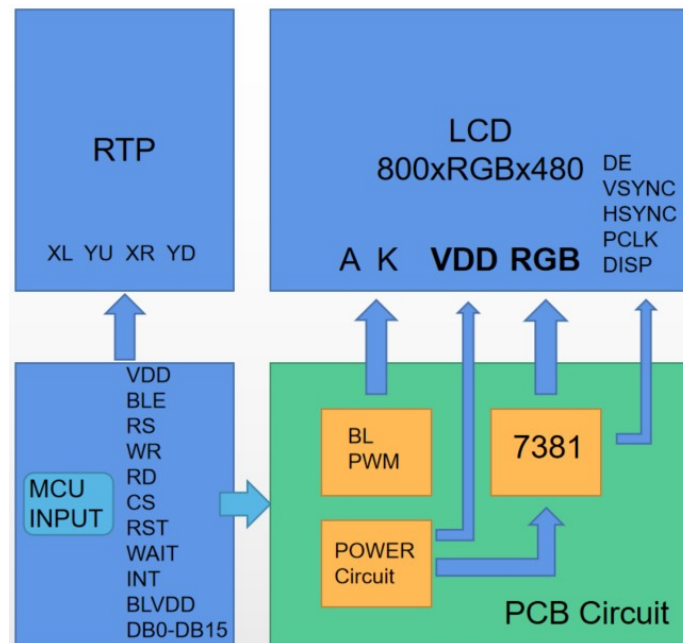
TFT070A111R is a 7.0' MCU screen. This product can be widely used in all kinds of smart home appliances, industrial control, electronic instruments, testing equipment, charging equipment and other fields of human-computer interaction occasions.



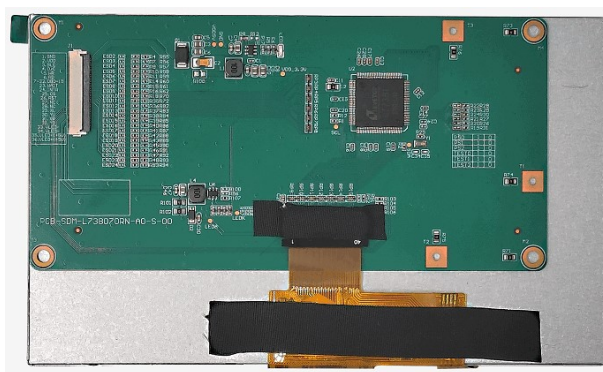
(1) HARDWARE PARAMETERS

Memory	32Mb Video Memory
Display Port	16-bit MCU
Power	5V DC (Typ.)
Power Consumption	TBD
Size	164.90*100.00*9.96mm
Language	Multiple languages supported
Weight	TBD

(2) FUNCTIONAL BLOCK DIAGRAM



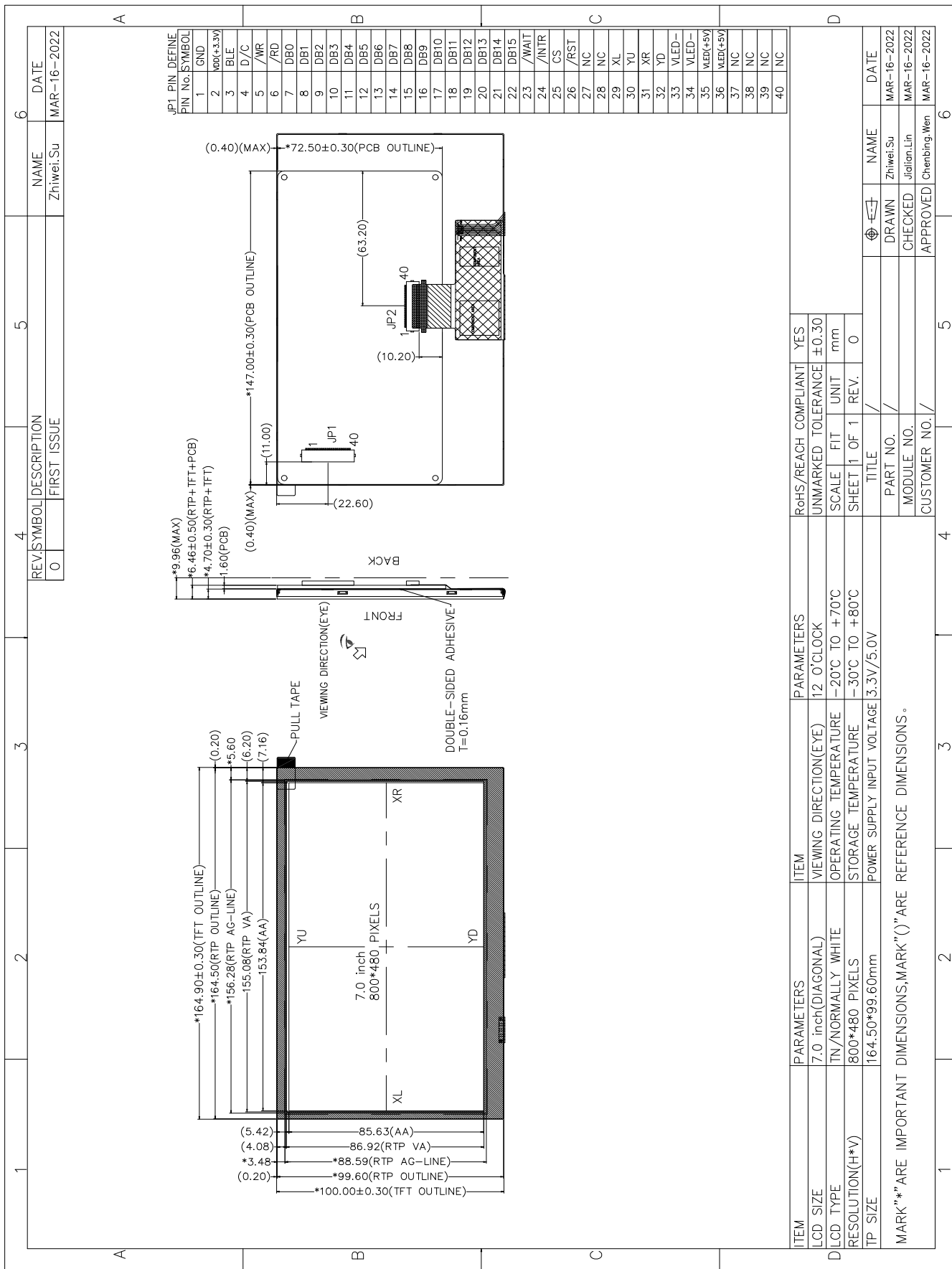
(3) INTERFACE DESCRIPTION



J1 : MCU Interface

No.	Symbol	Description
1	GND	Ground
2	VDD	Power
3	BLE	LCD backlight signal
4	RS/A0	Data or command pins (1: data read/write, 0: command read/write)
5	WR	Write the data control line to the LCD.
6	RD	Read the data control line from the LCD.
7-22	DB0-DB15	16 bit Bidirectional data bus
23	WAIT	The Waiting pins
24	INT	The interrupt pins
25	CS	Piece of optional signal
26	RST	Hardware resets the LCD signal
27	NC	No Connect
28	NC	No Connect
29	XL	X-Left of RTP
30	YU	Y-Up of RTP
31	XR	X-Right of RTP
32	YD	Y-Down of RTP
33	VLED-	Power for LED backlight
34	VLED-	Power for LED backlight
35	VLED+(5V)	Power for LED backlight
36	VLED+(5V)	Power for LED backlight
37-40	NC	No Connect

2.MOUDLE EXTERNAL DIMENSIONS



3.LCD DESCRIPTION

No.	Item	Contents			Unit
1	LCD Size	7.0			Inch
2	Display Mode	TN/NORMALLY WHITE/TRANSMISSIVE			/
3	Interface type	24 bit RGB			/
4	Resolution	800*480			Pixels
5	Pixel Pitch	0.1923*0.1784			mm
6	Color Depth	16.7			M
7	Module Size (L*W*H)	164.90*100.00*4.70mm			mm
8	Surface Luminance	350 (Min)	450(Typ.)	/	cd/m^2

4.ABSOLUTE MAXIMUM RATINGS

Item	Symbol	Min.	Max.	Unit
Module Power Supply Input Voltage	VDD	5.0	5.5	V
Module Supply Current (Normal Temp.)	IVDD	-	TBD	mA
Operation Temperature	Top	-20	+70	°C
Storage Temperature	Tst	-30	+80	°C
Humidity	RH	-	90	%RH

5.RELIABILITY TEST CONDITIONS

No.	Test Item	Test condition		Inspection after test
1	High Temperature Storage Test	+80°C/72 hours		Inspection after 2~4 hours storage at room temperature, the sample shall be free from defects : 1.Current changing value before test and after test is 50% larger; 2. Function defect : Non-display,abnormal-d isplay 3.Visual defect : Glass crack.
2	Low Temperature Storage Test	-30°C/72 hours		
3	High Temperature Operating Test	+70°C/24 hours		
4	Low Temperature Operating Test	--20°C/24 hours		
5	Temperature Cycle Storage Test	--20°C ~ 25°C ~ +80°C/10 cycles (30 min.) (10 min.) (30 min.)		
6	High Temperature High Humidity Test	+60°C*90% RH/48 hours		
7	Vibration Test	Frequency : 250 r/min Amplitude : 1 inch Time: 45 min		
8	Drop Test	Drop direction: 1 corner/3 edges/6 sides ,10 times		
		Packing weight(kg)	Drop height(cm)	

		<11	80±1.6	
		11 ≤ G < 21	60±1.2	
		21 ≤ G < 31	50±1.0	
		31 ≤ G < 40	40±0.8	
9	ESD Test	Air discharge: ±8 KV, 10 times Contact discharge: ±4 KV, 10 times		

6.REMARK:

- Avoid any inappropriate external force or strong vibration in the assembly process.
- Do not twist or bend panels and prevent improper external forces from damaging panels during assembly.
- High temperature, high humidity or rapid temperature changes may affect performance. Store and use the product in an appropriate environment.
- Avoid dust, oil mist, acid, alkali and chloride damage to the product.
- Wear wrist straps, antistatic gloves and clothes during assembly to prevent electrostatic discharge (ESD).
- When assembling, use ionic fan to prevent electrostatic discharge (ESD).
- Removing the protective film from the top (PCBA binding side) to the bottom in 3 seconds to prevent electrostatic discharge (ESD).
- Follow the correct time sequence when operating.
- Avoid displaying the same mode/pattern for a long time.
- V-COM voltage should be adjusted after aging (blinking) to display the best performance.
- Turn off the power when connecting or disconnecting the circuit.
- Products may contain small amounts of liquid crystal and comply with local laws and regulations.