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	罗超	林结通	Amblewang

Notes:

- 1.Please contact AVD 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.

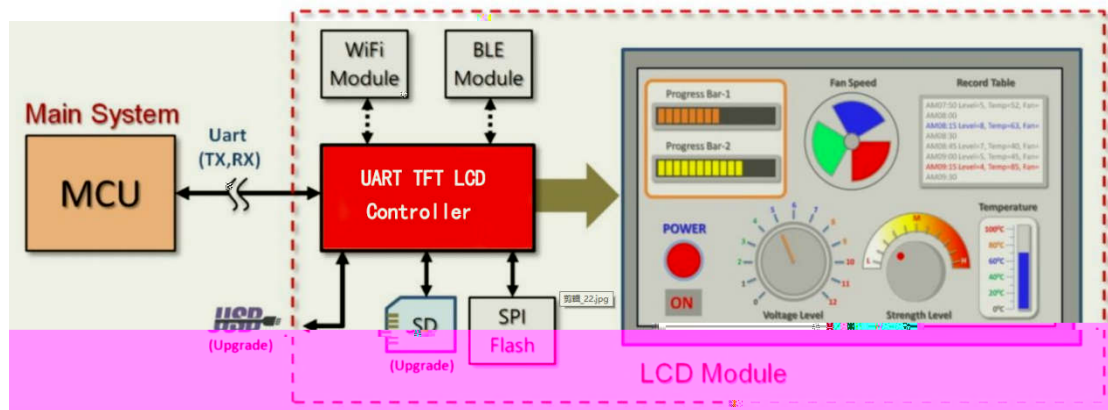
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is a 4.3" serial display module with capacitive touch panel. This product can be widely used in all kinds of smart home appliances, automobile instrument panel, motorcycle panel, multi-functional transaction



0xAA (1 Byte)	1 Byte	1 Byte	n Byte	2 Byte	0xE4 0x1B 0x11 0xEE (4 Bytes)





Power and UART

1	PWR+ 5V	6	TX
2	PWR+ 5V	7	NC
3	PWR+ 5V	8	PWR-
4	NC	9	PWR-
5	RX	10	PWR-

Standard Type-A USB 2.0 Interface



J3: MCU Burning Interface

1	GND	3	JTMS(SWDIO)
2	JCLK(SWCLK)	/	/



SPK: 8Ω3W Loudspeaker

1	SPK+	2	SPK-



BAT : CR1220 BAT

1	BAT+	2	GND

Remark:

- 1 The default value of a serial port is TTL.R8 R9 used to select TTL,R3 R4 used to select RS232, R5 R7 used to select RS485.
- 2 J3 is used for MCU Burning.
- 3 BAT is an external CR1220 button battery.
- 4 Firmware upgrade via USB flash drive.



1	LCD Size	4.3 Inch	/
2	Display Mode	TN/Normally White/Transmissive/Anti-glare	/
3	Interface Type	RGB 24bit	/
4	Resolution	480 *272 Pixels	/
5	Pixel Pitch	0.198*0.198 mm	/
6	Color Depth	16.7M	/
7	Module Size	105.40*67.1*2.90 mm	/
8	Surface Luminance	500(Typ.)	cd/m ²

1	Touch Type	Capacitive Touch Panel (CTP	/
2	Driver IC	GT911 or Compatible	/
3	Resolution	480*272 Pixels	/
4	Interface Type	IIC	/
5	Size	4.3 Inch	/
6	Operating Voltage	3.3	V

Item	Symbol	Min.	Max.	Unit
Power supply Input Voltage(Module)	VDD	-0.3	6.0	V
Supply Current (Normal Temp.)	IVDD	-	190	mA
Operation Temperature	Top	-20	+70	°C
Storage Temperature	Tst	-30	+80	°C
Humidity	RH	-	90%	%RH

No.	Test Item	Test condition	Inspection after test
1	High Temperature Storage Test	+80°C/120 hours	Inspection after 2~4 hours storage at room temperature, the sample shall be free from defects : 1.Current changing
2	Low Temperature Storage Test	-30°C/120 hours	
3	High Temperature Operating Test	+70°C/120 hours	
4	Low Temperature Operating Test	-20°C/120 hours	

5	Temperature Cycle Storage Test	-30°C ~ 25°C ~ +80°C/10 cycles (30 min.) (10 min.) (30 min.)		value before test and after test is 50% larger; 2. Function defect : Non-display,abnormal-d isplay 3.Visual defect : Glass crack.
6	High Temperature High Humidity Test	+50°C*90% RH/120 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		

- 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 to prevent electrostatic discharge (ESD).
- When assembling, use ionic fan to prevent electrostatic discharge (ESD).
- (PCBA binding side)
electrostatic discharge (ESD).
- Follow the correct when operating.
- 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.