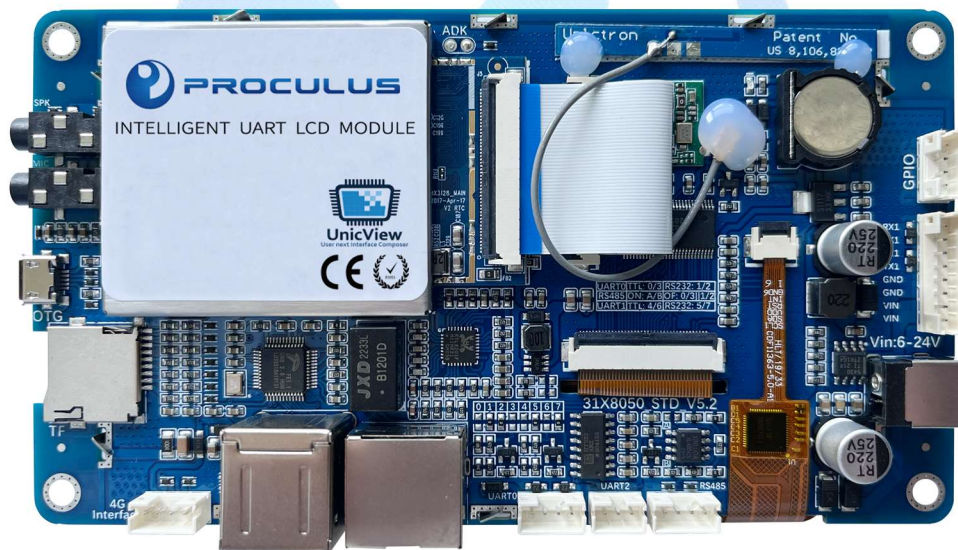


# P80480MS050C\_T01

5.0 Inches, 800xRGBx480, 16.7M Colors, Android LCM



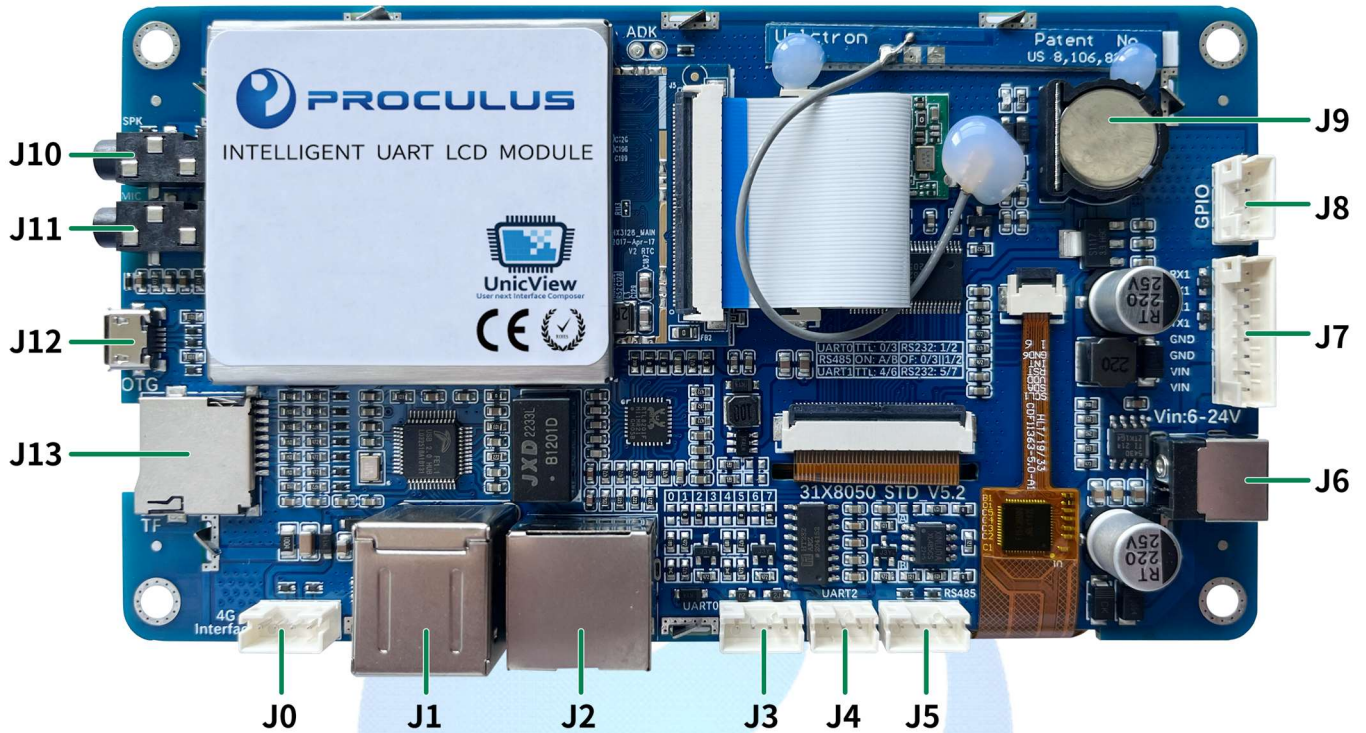
P80480MS050C\_T01 is an industrial level Android LCM based on Rockchip RK3128 ARM. It is equipped with Quad-core Cortex-A7, supports most decoding solutions under 1080p@60fps, H.264/MVC/VP8 solutions under 1080p@30fps and many other great features of Rockchip RK3128. Meanwhile, with good jpeg picture processing performance and 3D GPU, it supports OpenGL ES2.0 and 1.1 OpenVG1.1.

RK3128 has high-performance external memory interface (DDR3/LPDDR2/LVDDR3) capable of sustaining demanding memory bandwidths, also provides a complete set of peripheral interface to support very flexible applications.

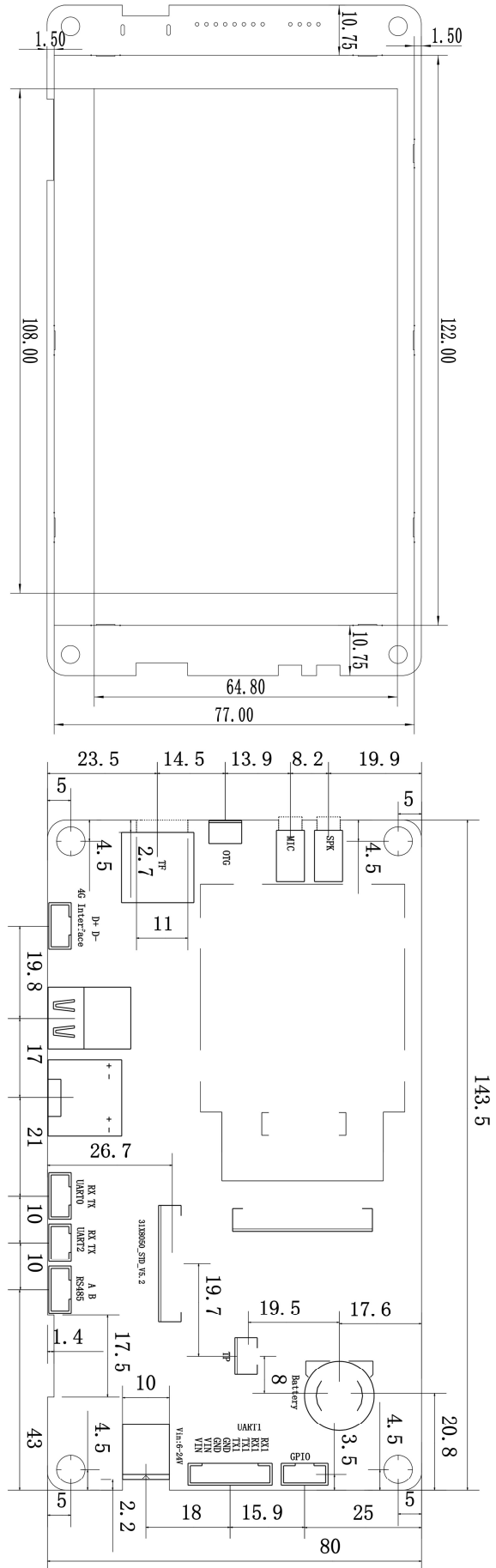
Core Board						
CPU	1.3 GHz Quad-core A7 ARM					
RAM	1GB DDR3					
eMMC	8GB					
GPU	Mali400 MP2					
Power Management	ACT8846 PMU					
System Version						
Android	Android 5.1/7.1					
Ubuntu	Ubuntu 15.04 (Default system is Android. Need to refresh firmware to choose Ubuntu. Apps need to be developed separately.)					
Display						
Color	16.7M (16777216) colors, 24-bit color 8R8G8B.					
Active Area (A.A.)	108.0 mm(W)×64.8 mm(H), 800*480.					
View Area (V.A.)	110.4 mm(W)×67.1 mm(H), 800*480.					
Resolution	800*480					
Backlight	LED					
Brightness	300nit					
Optical Specifications						
Item	Symbol	Condition	Min.	Typ.	Max.	Unit
Viewing Angle (CR <sub>≥</sub> 10)	θL	Φ=180° (9 o' clock)	—	70	—	Degree
	θR	Φ=0° (3 o' clock)	—	70	—	
	θT	Φ=90° (12 o' clock)	—	50	—	
	θB	Φ=270° (6 o' clock)	—	70	—	
Voltage & Current						
Item	Condition		Min.	Typ.	Max.	Unit
Power Voltage			6	12	24	V
Operation Current	—		—	400	—	mA
Power Supply	12V 2A DC (Recommended).					

Reliability Test					
Item	Condition	Min.	Typ.	Max.	Unit
Working Temperature	60%RH at 12V voltage	-20	25	70	°C
Storage Temperature	—	-30	25	85	°C
Working Humidity	25°C	10%	60%	90%	RH
Protection Paint	—	—	None	—	—
Interface					
Item	Condition	Min.	Typ.	Max.	Unit
Baud Rate	Standard	—	9600	—	bps
	User Defin	1200	—	115200	bps
Serial Mode	Serial Port*2 (1*RS232/TTL, 1*RS232/TTL/RS485)				
User Interface	Standard serial communication protocol. 8Pin_2.0mm socket.				
USB	USB DEBUG*1. USB HOST*2.				
Ethernet	Support 10m/100m Ethernet.				
Wi-Fi	Support 802.11b/g/n Wi-Fi wireless network.				
4G LTE Module	—				
Peripherals					
Microphone	3.5mm Audio input interface.				
Loudspeaker	3.5mm Audio output interface.				
IIC	—				
TF card	Yes				
GPIO	Reserved				

### Interface Description



Num.	Interface Name	Description
J0	4G interface	4G Adapter plate interface
J1	USB interface	Support dual USB parallel use
J2	RJ45 interface	Support 10M/100M network
J3	UART0	Device Name: TTY50 /Pin Definition: 5V,RX0,TX0,GND
J4	UART2	-
J5	RS485	Device Name: TTY50 /Pin Definition: 5V,A,B,GND
J6	Power	12V2A power supply
J7	User interface	Device Name: TTY51 /Pin Definition: RX1,RX1,TX1,TX1,G,G,V,V
J8	GPIO interface	Pin Definition:GPIO1,GPIO2,GPIO3,GND
J9	Battery interface	RTC power supply
J10	Audio interface	3.5mm Audio interface
J11	MIC interface	3.5mm MIC interface
J12	OTG interface	OTG function /APP debugging interface/firmware upgrade interface
J13	TF interface	Memory Card

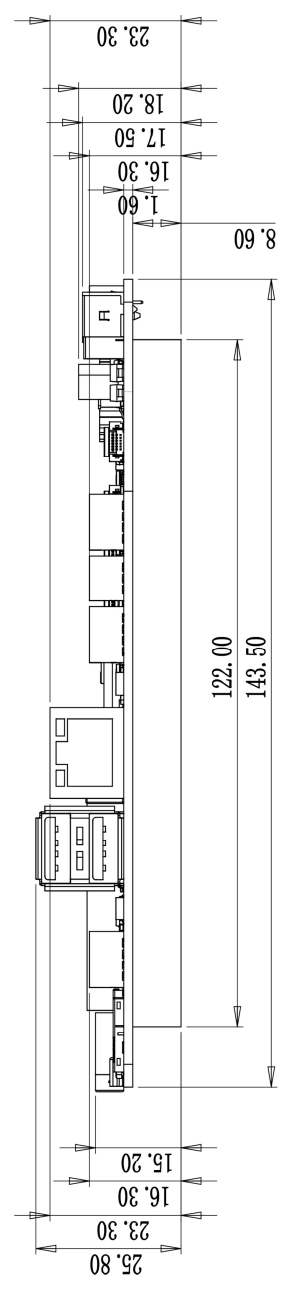
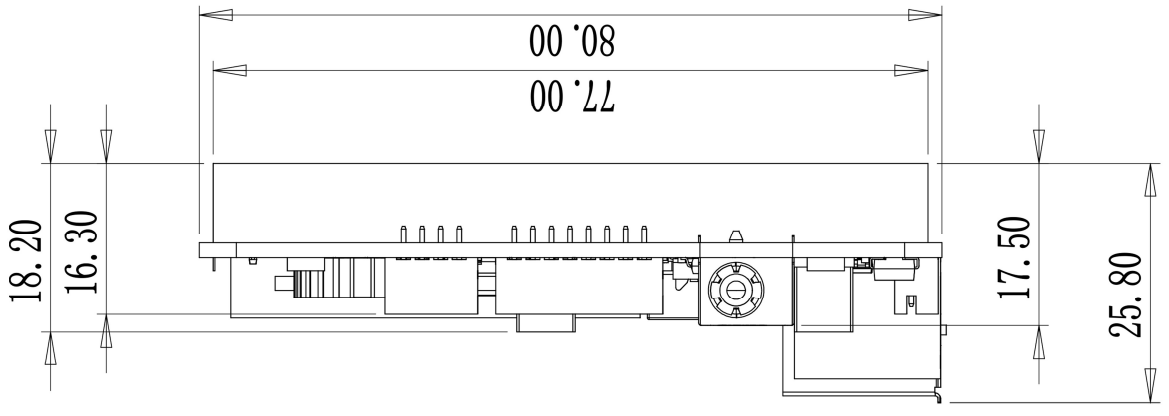


1. Location hole is used as position reference

2. Unmarked Tolerance is +/-0.3mm

Active area is marked in Dash lines

Part No.	P80480MS050C_T01_V5.2				
Datasheet	A4	Drawn by	Proclus		Date
Proportion	1:1	Verified by		Date	
Unit	mm	Confirmed by		Date	



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