

7.0 Inches, 1024xRGBx600, 16.7M Colors, Android LCM

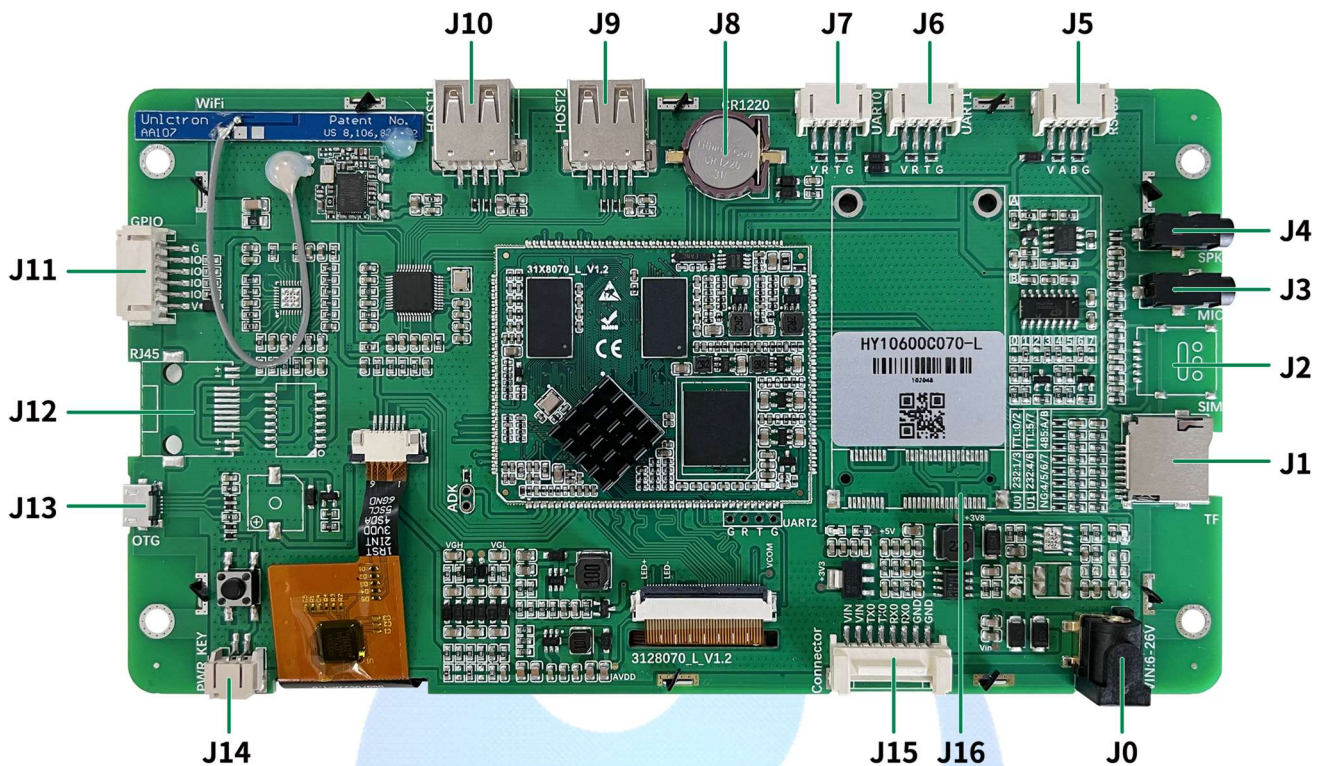


Rockchip RK3128 has high-performance external memory interface (DDR3/DDR3L/LPDDR2) capable of sustaining demanding memory bandwidths, also provides a complete set of peripheral interface to support very flexible applications.

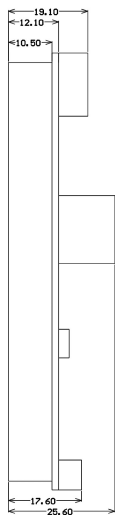
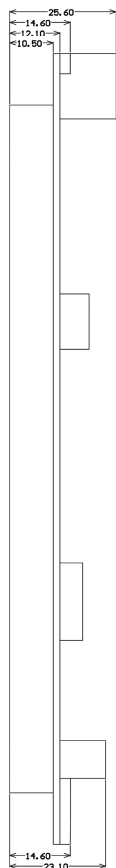
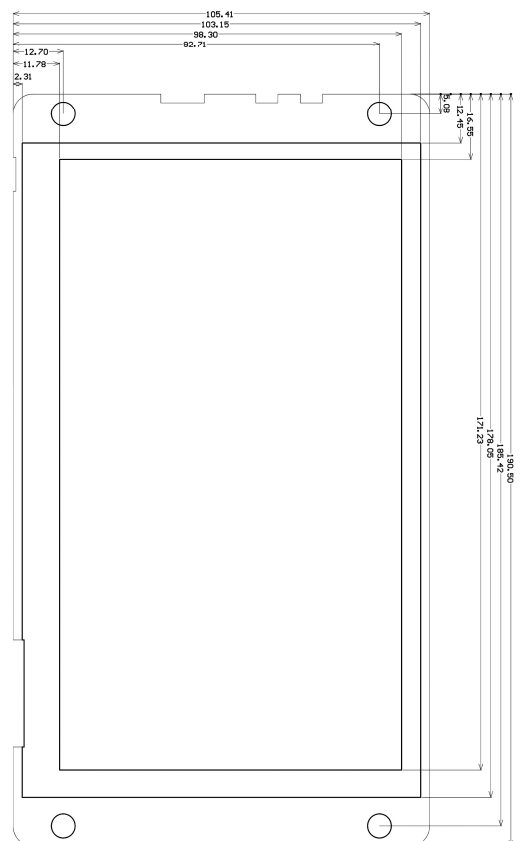
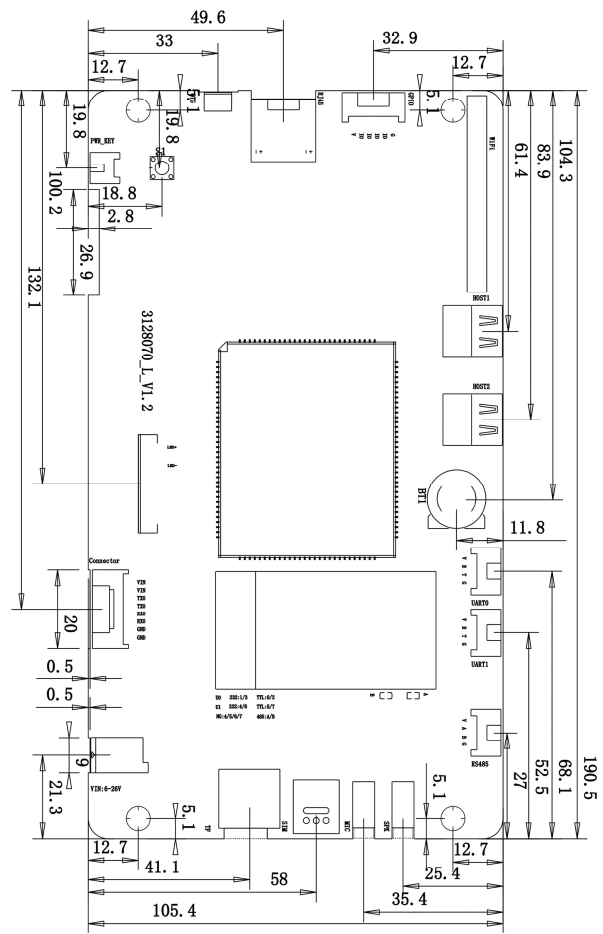
Core Board						
CPU	1.3 GHz Quad-core A7 ARM					
RAM	1GB DDR3					
eMMC	8GB					
GPU	Mali400MP2					
System Version						
Android	Android 5.1/7.1					
Ubuntu	Ubuntu 15.04 (Default system is Android. Need to refresh firmware to choose Ubuntu. Apps need to be developed separately.)					
Display						
Color	16.7M (16777216) colors, 24-bit color 8R8G8B					
Active Area (A.A.)	154.08 mm(W)×85.92 mm(H), 1024×600					
View Area (V.A.)	155.96 mm(W)×88.87mm(H), 1024×600					
Resolution	1024×600					
Backlight	LED					
Brightness	350 cd/m ² - P10600MS070L_T03 500 cd/m ² - P10600MS070L_T04 1000 cd/m ² - P10600MS070L_T05					
Optical Specifications						
Item	Symbol	Condition	Min.	Typ.	Max.	Unit
Viewing Angle (CR≥10)	θL	Φ=180° (9 o' clock)	70	80	—	Degree
	θR	Φ=0° (3 o' clock)	70	80	—	
	θT	Φ=90° (12 o' clock)	50	60	—	
	θB	Φ=270° (6 o' clock)	60	70	—	
Voltage & Current						
Item	Condition		Min.	Typ.	Max.	Unit
Power Voltage			6	12	26	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	℃
Storage Temperature	—	-30	25	85	℃
Working Humidity	25℃	10%	60%	90%	RH
Protection Paint	—	—	None	—	—
Interface					
Item	Condition	Min.	Typ.	Max.	Unit
Baud Rate	Standard	1200	9600	115200	bps
	User Defin	1200	—	115200	bps
Serial Mode	Serial Port*2(1RS232/TTL, 1*RS485/RS232/TTL)				
User Interface	Standard serial communication protocol. 8Pin_2.0mm socket				
USB	USB DEBUG*1. USB HOST*2				
Ethernet	Support 10m/100m Ethernet				
Wi-Fi/Bluetooth	Support 802.11b/g/n Wi-Fi wireless network; Bluetooth is optional				
4G LTE Module	Optional				
Peripherals					
Microphone	3.5mm Audio input interface				
Loudspeaker	3.5mm Audio output interface				
TF card	Yes				
GPIO	GPIO*4				

Interface Description



Num.	Interface Name	Description
J0	Power	12V/2A power supply (maximum voltage ranges from 6V to 26V DC)
J1	TF card	Memory expansion
J2	SIM card	Nano-SIM supported (Optional)
J3	MIC	3.5mm Audio input interface
J4	SPK	3.5mm Audio output interface
J5	RS485	Device name: ttyS1. Pin definition: 5V, A, B, GND
J6	UART1	Device name: ttyS1. Pin definition: 5V, RXD, TXD, GND
J7	UART0	Device name: ttyS0. Pin definition: 5V, RXD, TXD, GND
J8	RTC	Supply system RTC
J9	USB_HOST2	Support USB Peripherals
J10	USB_HOST1	Support USB Peripherals
J11	GPIO interface	Pin definition: GND, IO, IO, IO,IO,V
J12	RJ45 interface	Support USB Peripherals Support 10M/100M network (Optional)
J13	USB_Micro	OTG /App debugging/ Firmware upgrade interface
J14	Wake-up	Control screen system on/off
J15	User interface	Pin Definition: 12V, 12V, NC, TXD, RXD, RXD, GND, GND
J16	MINI PCIE 4G	4G LTE Module/GPS (Optional)



1. Location hole is used as position reference

2. Unmarked Tolerance is $\pm 0.3\text{mm}$

Active area is marked in Dash lines

Part No.	P10600MS070L_T03_V1.2				PROCLUS
Datasheet	A4	Drawn by	Proculus	Date	
Proportion	1:1	Verified by		Date	
Unit	mm	Confirmed by		Date	