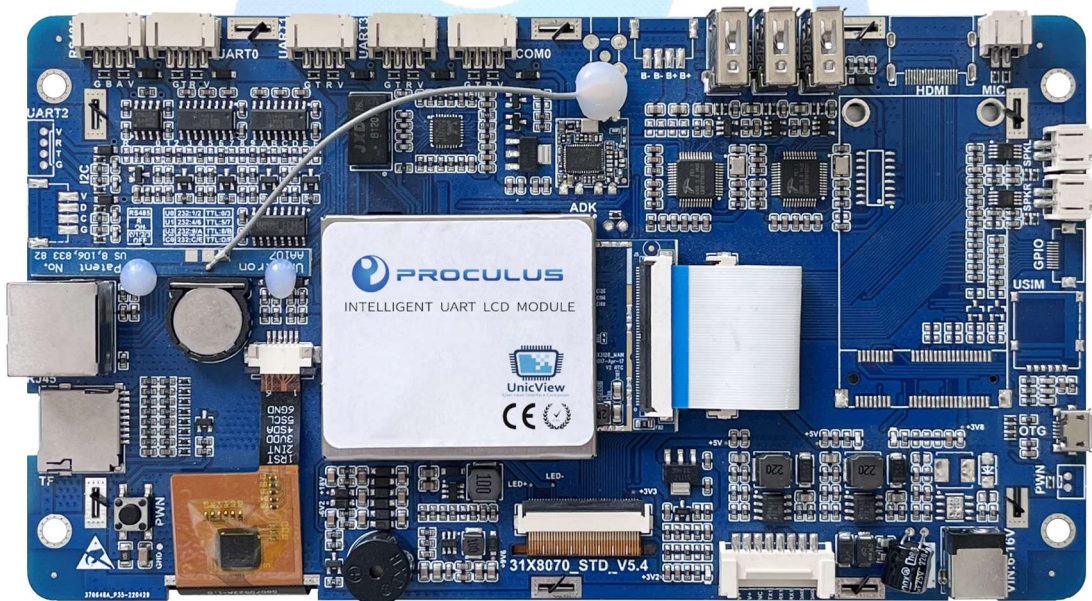


P10600HY070C_T01

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



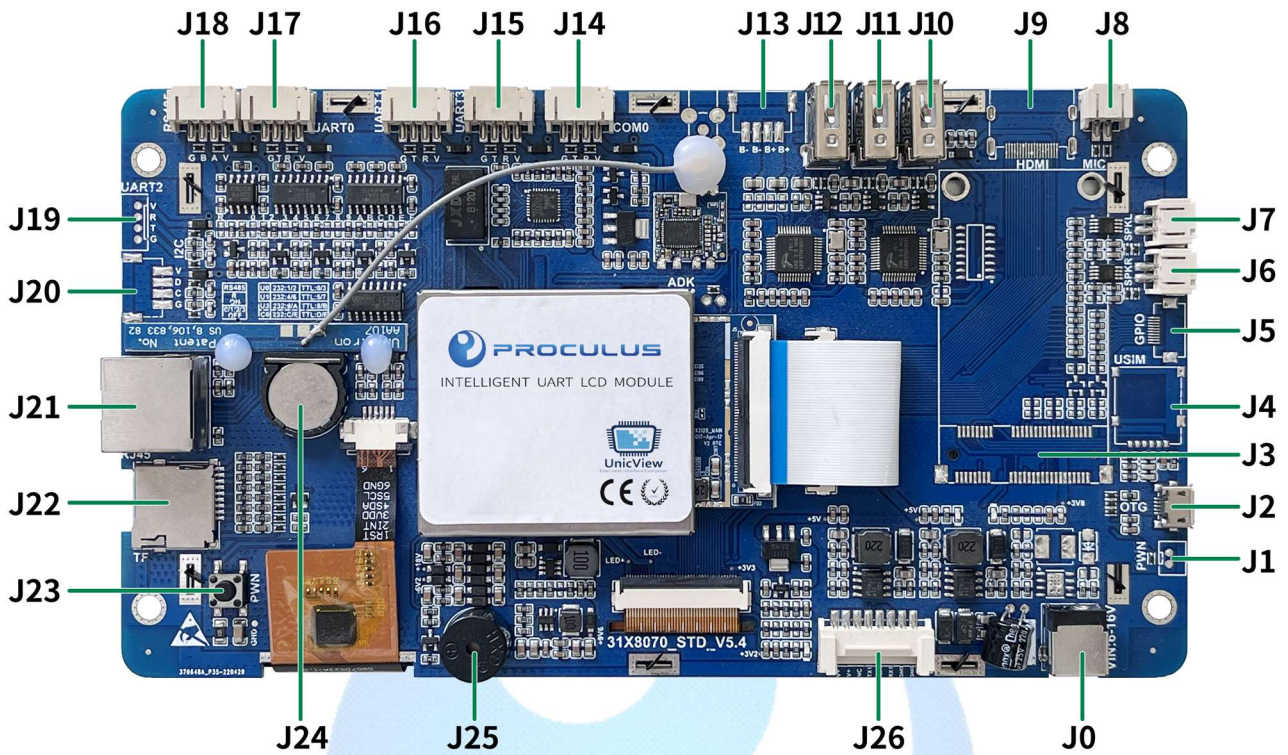
P10600HY070C_T01 is an industrial level Android LCM based on Rockchip RK3128 ARM. It is equipped with Quad-core Cortex-A7, supporting most decoding solutions under 1080p@60fps, H.265/H.264/MVC/VP8 solutions and many other great features of Rockchip RK3128. Meanwhile, with good jpeg picture processing performance and 3D GPU, it supports OpenGL ES2.0 and OpenVG1.1.

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					
Power Management	AXP192 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.)	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	350/500/1000					
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	16	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	1200	9600	115200	bps
	User Defin	1200	—	115200	bps
Serial Mode	Serial Port*3 (2*RS232/TTL, 1*RS485/RS232/TTL)				
User Interface	Standard serial communication protocol. 8Pin_2.0mm socket.				
USB	USB DEBUG*1. USB HOST*3				
Ethernet	Support 10m/100m Ethernet.				
Wi-Fi/Bluetooth	Support 802.11b/g/n Wi-Fi wireless network; Bluetooth is optional.				
4G LTE Module	4G LTE Module/GPS. (Optional)				
Peripherals					
Microphone	Audio input interface.				
Loudspeaker	2-channel, 4Ω/3W loudspeaker.				
HDMI	—				
IIC	Optional				
TF card	Yes				
GPIO	Reserved				

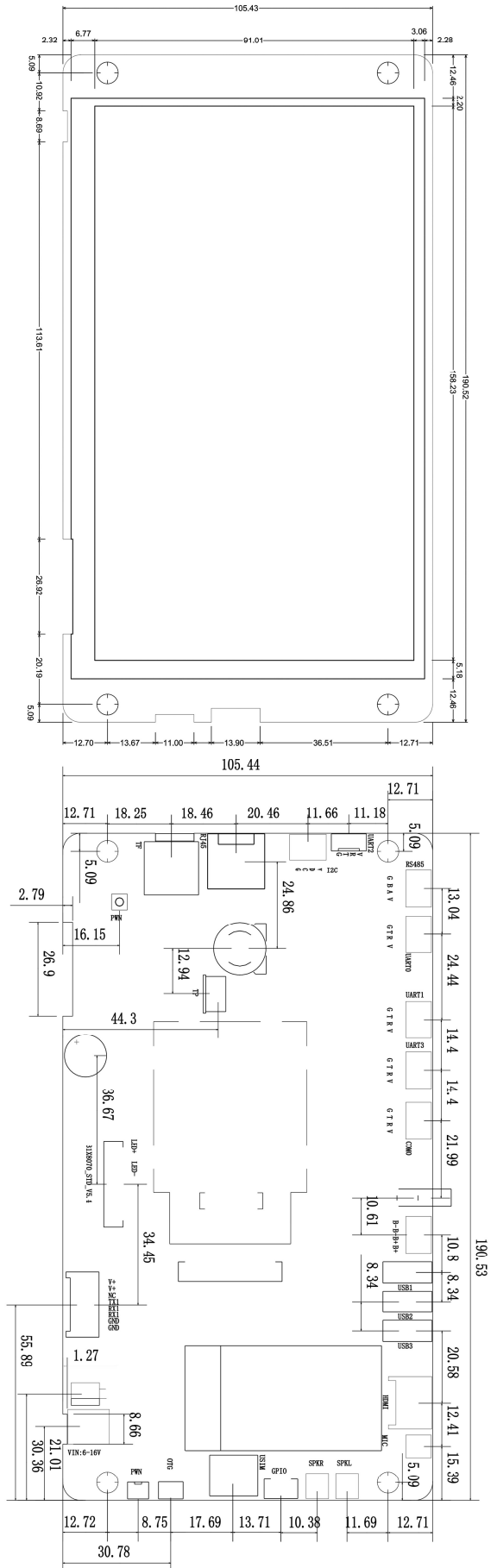
Interface Description



Num.	Interface Name	Description
J0	Power	12V/2A power supply (maximum voltage ranges from 6V to 16V DC)
J1	Wake-up	Control screen system on/off
J2	USB_Micro	OTG /App debugging/ Firmware upgrade interface
J3	MINI PCIE 4G	4G LTE Module/GPS (Optional)
J4	SIM card	Nano-SIM supported (Optional)
J5	GPIO interface	Reserved,GPIO Number:13,12,11,73,74,75
J6	SPK_R	Right channel audio output interface
J7	SPK_L	Left channel audio output interface
J8	MIC	Audio input interface
J9	HDMI	-
J10	USB_HOST3	Support USB Peripherals
J11	USB_HOST2	Support USB Peripherals
J12	USB_HOST1	Support USB Peripherals
J13	Debug interface	not open temporarily
J14	COM0	Device name: COM0. Pin definition: 5V, RXD, TXD, GND (Optional)
J15	Debug interface	not open temporarily
J16	UART1	Device name: ttyS1. Pin definition: 5V, RXD, TXD, GND
J17	UART0	Device name: ttyS0. Pin definition: 5V, RXD, TXD, GND/Same as J18
J18	RS485	Device name: ttyS0. Pin definition: 5V, A, B, GND/Same as J17

J19	Debug interface	not open temporarily
J20	IIC communication	Pin definition: 5V, SDA, SCL, GND (Reserved)
J21	RJ45 interface	Support 10M/100M network
J22	TF card	Can do memory expansion
J23	Wake-up	Control screen system on/off
J24	RTC	Supply system RTC
J25	Buzzer	Buzzer
J26	User interface	Pin Definition: 12V, 12V, NC, TXD, RXD, RXD, GND, GND



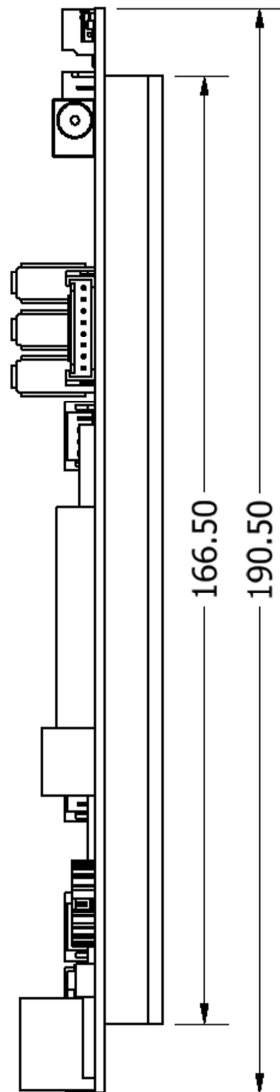
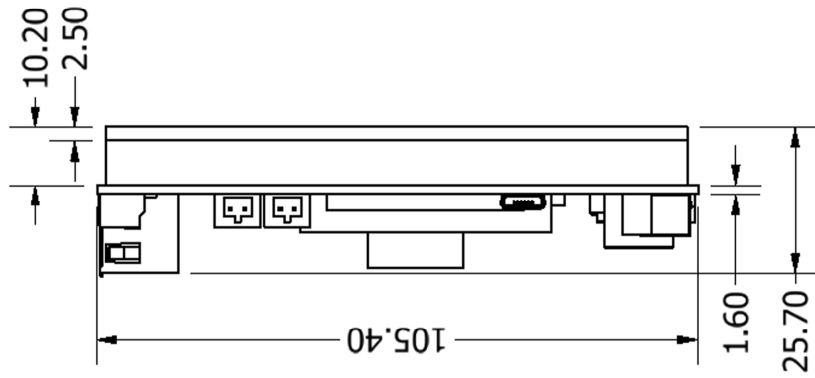


1. Location hole is used as position reference

2. Unmarked Tolerance is +/-0.3mm

Active area is marked in Dash lines


Part No.	P10600HY070C_T01_V5.4				
Datasheet	A4	Drawn by	Proclus	Date	
Proportion	1:1	Verified by		Date	
Unit	mm	Confirmed by		Date	



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