

P10768HY150I_T01

15 Inches, 1024xRGBx768, 16.7M Colors, Android LCM



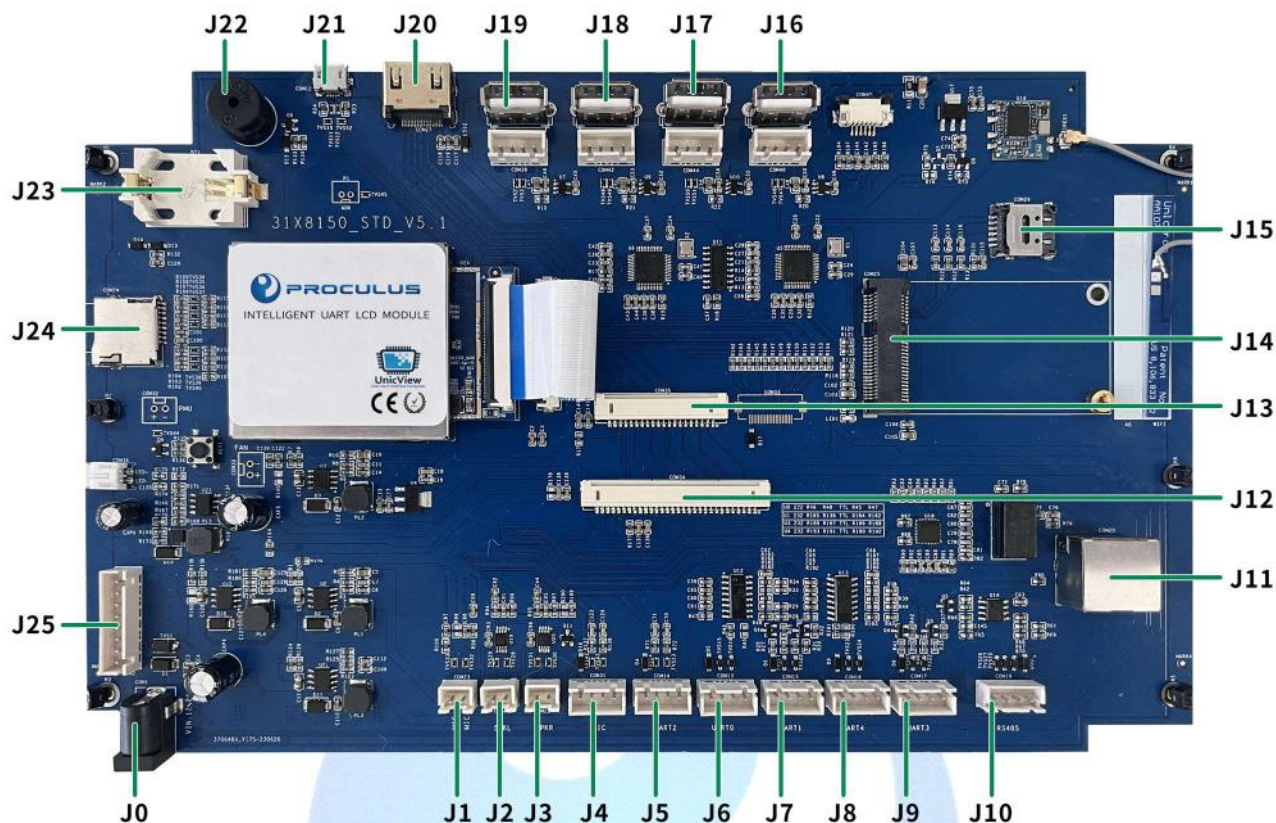
P10768HY150I_T01 is an industrial level Android LCM based on Rockchip RK3188 ARM. It is equipped with Quad-core Cortex-A9, supports most decoding solutions under 1080p@60fps, H.265/H.264/MVC/VP8 solutions under 1080p@60fps and many other great features of Rockchip RK3188. Meanwhile, with good jpeg picture processing performance and 3D GPU, it supports OpenGL ES2.0 and 1.1 OpenVG1.1.

RK3188 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	1.6GHz Quad-core A9 ARM					
RAM	1GB DDR3					
eMMC	8GB					
GPU	Mali400 MP4					
Power Management	ACT8846 PMU					
System Version						
Android	Android 5.1					
Display						
Color	16.7M (16777216) colors, 24-bit color 8R8G8B					
Active Area (A.A.)	304.128 mm(W)×228.096 mm(H), 1024×768.					
View Area (V.A.)	326.5 mm(W)×253.5mm(H), 1024×768.					
Resolution	1024×768.					
Backlight	LED					
Brightness	300nit					
Optical Specifications						
Item	Symbol	Condition	Min.	Typ.	Max.	Unit
Viewing Angle (CR≥10)	θL	Φ=180° (9 o' clock)	85	89	—	Degree
	θR	Φ=0° (3 o' clock)	85	89	—	
	θT	Φ=90° (12 o' clock)	85	89	—	
	θB	Φ=270° (6 o' clock)	85	89	—	
Voltage & Current						
Item	Condition		Min.	Typ.	Max.	Unit
Power Voltage			12	12	24	V
Operation Current	—		—	700	—	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	115200	115200	bps
	User Defin	1200	—	115200	bps
Serial Mode	Serial Port*4 (3*RS232/TTL, 1* RS232/TTL/RS485).				
User Interface	Standard serial communication protocol. 4Pin_2.54mm/8Pin_2.54mm socket.				
USB	USB DEBUG*1. USB HOST*4.				
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	HDMI output interface.				
TF card	Yes				
IIC	Reserved				

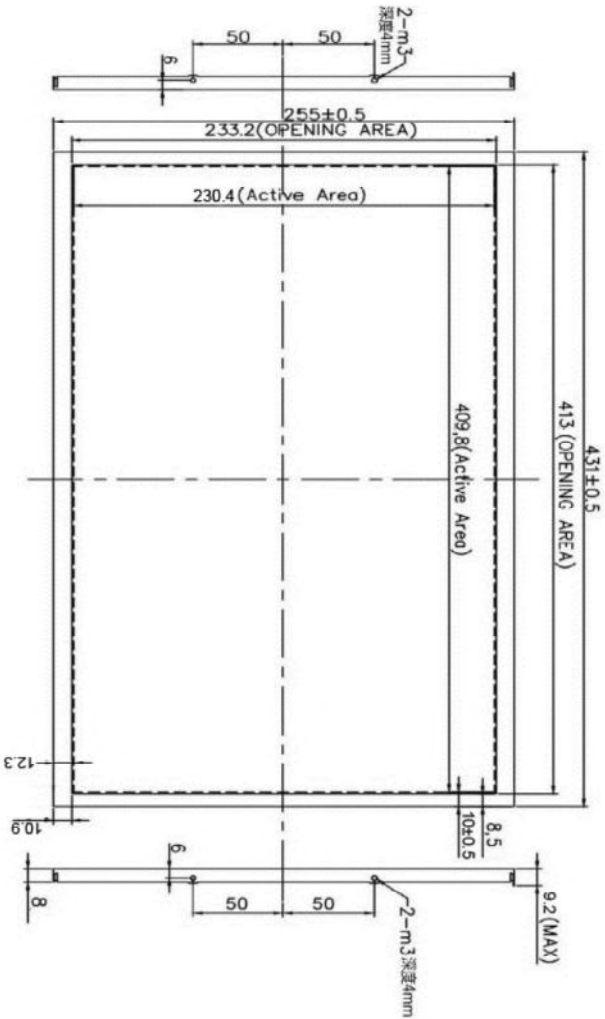
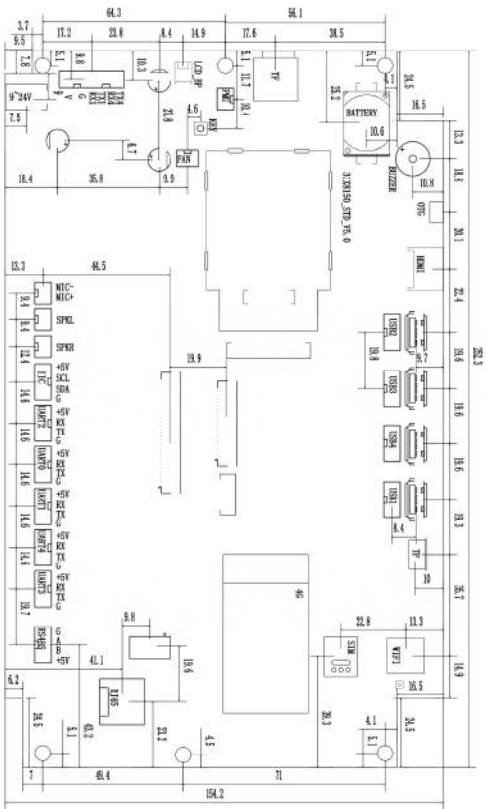
Interface Description



Num.	Interface Name	Description
J0	Power	12V2A power supply
J1	MIC	Audio input interface
J2	SPK_L	Left channel audio output interface
J3	SPK_R	Right channel audio output interface
J4	IIC	IIC Interface. Pin definition: 5V,SCL,SDA,GND
J5	Debug interface	not open temporarily
J6	UART0	Device name: ttyS0 Pin definition: 5V, RX, TX, GND
J7	UART1	Device name: ttyS1. Pin definition: 5V, RX, TX, GND
J8	UART4	Device name: ttyS4. Pin definition: 5V, RX, TX, GND
J9	UART3	Device name: ttyS3. Pin definition: 5V, RX, TX, GND
J10	RS485	Device name: ttyS3 Pin definition: GND, A,B,5V
J11	RJ45 interface	Support 10M/100M network
J12	LCD interface	-
J13	LCD interface	-
J14	MINI PCIE 4G	4G LTE Module/GPS (Optional)
J15	SIM card	Nano-SIM supported (Optional)
J16	USB_HOST1	Horizontal USB2.0 (Vertical 4P2.54mm). Support USB Peripherals
J17	USB_HOST2	Horizontal USB2.0 (Vertical 4P2.54mm). Support USB Peripherals
J18	USB_HOST3	Horizontal USB2.0 (Vertical 4P2.54mm). Support USB Peripherals

J19	USB_HOST4	Horizontal USB2.0 (Vertical 4P2.54mm). Support USB Peripherals
J20	HDMI	-
J21	USB_Micro	OTG /App debugging/ Firmware upgrade interface
J22	Buzzer	Buzzer
J23	RTC	Supply system RTC
J24	TF card	Can do memory expansion
J25	User interface	Pin Definition: TX4,RX4,TX1,RX1,GND,GND,VIN,VIN



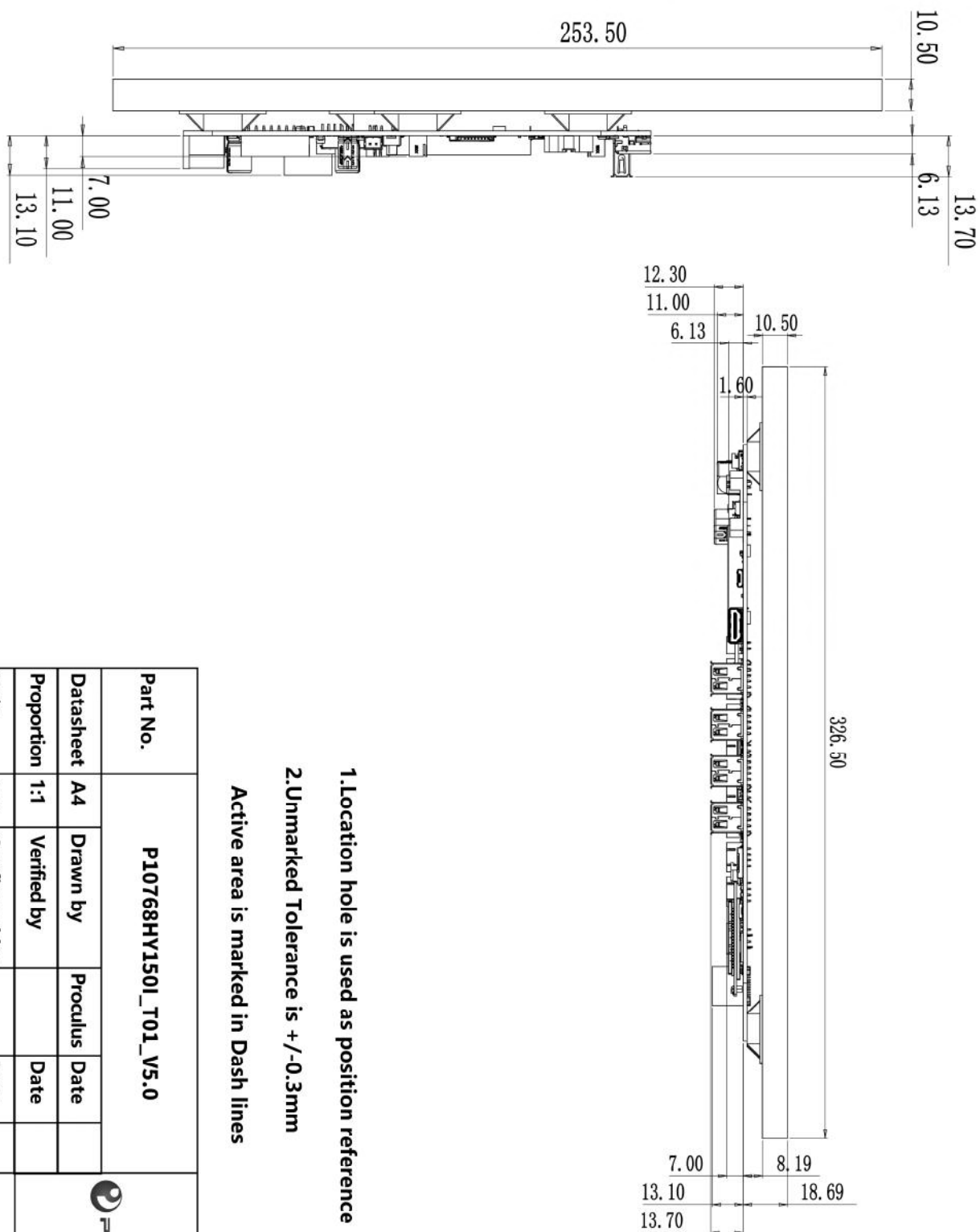


1. Location hole is used as position reference

2. Unmarked Tolerance is +/-0.3mm

Active area is marked in Dash lines

Part No.	P10768HY150I_T01_V5.0				
Datasheet	A4	Drawn by	Proculus	Date	
Proportion	1:1	Verified by		Date	
Unit	mm	Confirmed by		Date	



1. Location hole is used as position reference

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

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Part No.	P10768HY150I_T01_V5.0				 PROCULUS	
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