

P19480HY088P_T01

8.8 Inches, 1920xRGBx480, 16.7M Colors, Android LCM



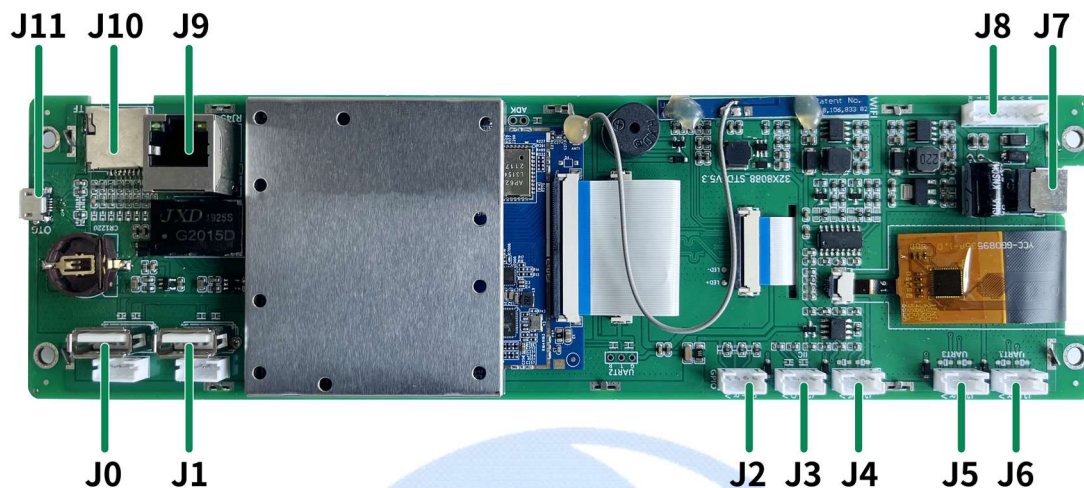
P19480HY088P_T01 is an industrial level Android LCM based on Rockchip RK3288 ARM. It is equipped with Quad-core Cortex-A17, supports most decoding solutions under 1080p@60fps, H.265/H.264/MVC/VP8 solutions under 1080p@60fps and many other great features of Rockchip RK3288. Meanwhile, with good jpeg picture processing performance and 3D GPU, it supports OpenGL ES2.0 and 1.1 OpenVG1.1.

RK3288 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.

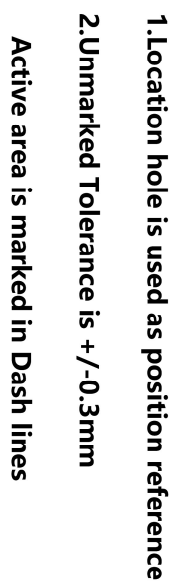
Core Board						
CPU		1.8GHz Quad-core A17 ARM				
RAM		2GB DDR3				
eMMC		8GB				
GPU		Mali-T764 MP4				
Power Management		ACT8846 PMU				
System Version						
Android		Android 5.1/7.1/8.1				
Ubuntu		Ubuntu 18.04 (Default system is Android. Need to refresh firmware to choose Ubuntu. Apps need to be developed separately.)				
Display						
Color		16.7M (16777216) colors, 24-bit color 8R8G8B.				
Active Area (A.A.)		218.88 mm(W)×54.72 mm(H), 1920×480.				
View Area (V.A.)		231.30 mm(W)×64.30mm(H) , 1920×480.				
Resolution		1920×480				
Backlight		LED				
Brightness		350nit				
Optical Specifications						
Item	Symbol	Condition	Min.	Typ.	Max.	Unit
Viewing Angle (CR≥10)	θL	Φ=180° (9 o’ clock)	80	85	—	Degree
	θR	Φ=0° (3 o’ clock)	80	85	—	
	θT	Φ=90° (12 o’ clock)	80	85	—	
	θB	Φ=270° (6 o’ clock)	80	85	—	
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	℃
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*2 (1*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*2.				
Ethernet	Support 10m/100m/1000m Ethernet.				
Wi-Fi/Bluetooth	Support 802.11b/g/n Wi-Fi wireless network; Bluetooth is optional.				
4G LTE Module	—				
Peripherals					
Microphone	—				
Loudspeaker	—				
HDMI	—				
IIC	YES				
TF card	YES				

Interface Description



Num.	Interface Name	Description
J0	USB_HOST1	Horizontal USB2.0 (Vertical 4P2.54mm). Support USB Peripherals
J1	USB_HOST2	Horizontal USB2.0 (Vertical 4P2.54mm). Support USB Peripherals
J2	GPIO interface	Pin definition:GPIO168,GPIO229,GPIO70,GND
J3	IIC interface	Pin definition:V,D,C,GND
J4	RS485	Device name: ttyS3.Pin definition: 5V, A, B, GND
J5	UART3	Device name: ttyS3. Pin definition: 5V, RX, TX, GND
J6	UART1	Device name: ttyS1. Pin definition: 5V, RX, TX, GND
J7	Power	12V2A power supply
J8	User interface	Pin definition:RX3,TX3,RX1,TX1,V-,V-,V+,V+
J9	RJ45 interface	Support 10M/100M/1000M network
J10	TF Card	TF Card
J11	USB_Micro	OTG /App debugging/ Firmware upgrade interface



Part No.	P19480HY088P_T01_V5.3				 PROCULUS
Datasheet	A4	Drawn by	Proculus	Date	
Proportion	1:1	Verified by		Date	
Unit	mm	Confirmed by		Date	