

P10600HY070X_B01

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



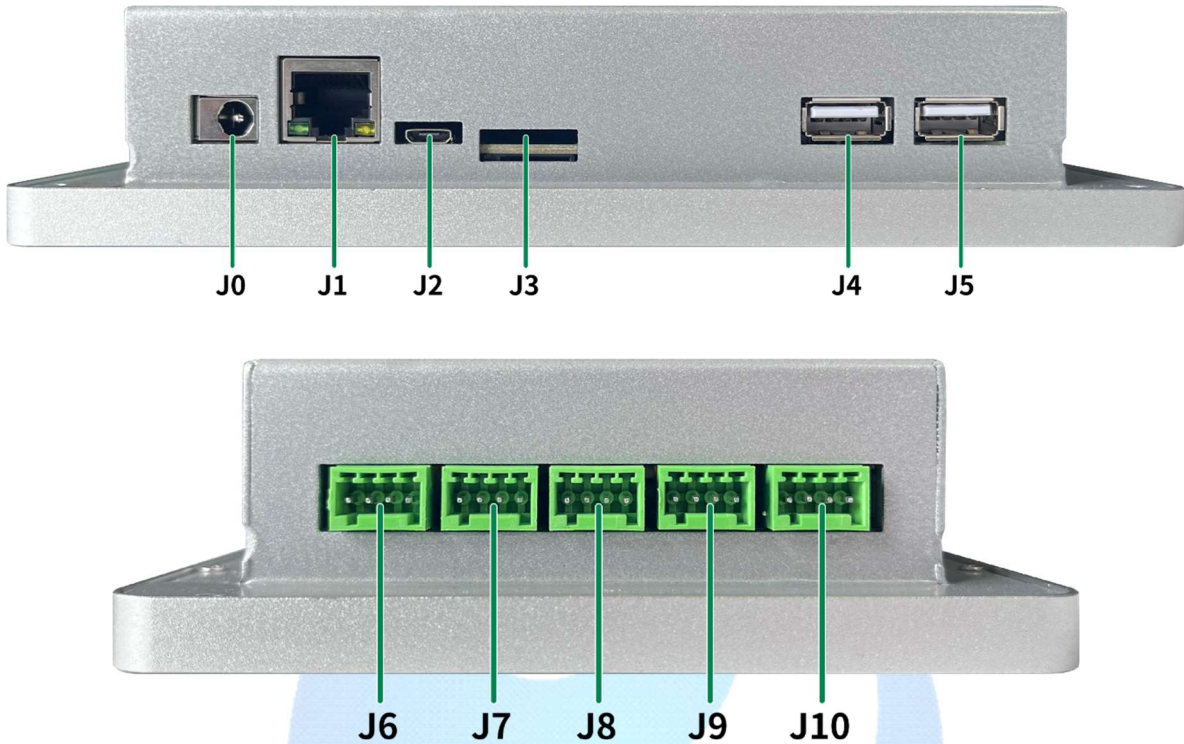
P10600HY070X_B01 is an industrial level Android LCM based on Rockchip RK PX30 ARM. It is equipped with Quad-core Coretex-A35, supporting most decoding solutions under 1080p@60fps, H.265/H.264/MVC/VP8 solutions and many other great features of Rockchip RK PX30. Meanwhile, with good jpeg picture processing performance and 3D GPU, it supports OpenGL ES2.0 and OpenVG1.1.

Rockchip RK PX30 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	1.5 GHz Quad-core A35 ARM					
RAM	1GB DDR3					
eMMC	8GB					
GPU	Mali-G31					
Power Management	RK809					
System Version						
Android	Android 8.1					
Ubuntu	Ubuntu16.04 or linux+QT5.12 (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					
Optical Specifications						
Item	Symbol	Condition	Min.	Typ.	Max.	Unit
Viewing Angle ($CR \geq 10$)	θ_L	$\Phi = 180^\circ$ (9 o' clock)	70	80	—	Degree
	θ_R	$\Phi = 0^\circ$ (3 o' clock)	70	80	—	
	θ_T	$\Phi = 90^\circ$ (12 o' clock)	50	60	—	
	θ_B	$\Phi = 270^\circ$ (6 o' clock)	60	70	—	
Voltage & Current						
Item	Condition		Min.	Typ.	Max.	Unit
Power Voltage			12	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	1200	9600	115200	bps
	User Defined	1200	—	115200	bps
Serial Mode	Serial Port*4 (2*RS232,1*TTL, 1*RS485 /TTL)				
USB	USB HOST*2				
Ethernet	Support 10m/100m Ethernet.				
Wi-Fi/Bluetooth	Support 802.11b/g/n Wi-Fi wireless network; Bluetooth 4.0				
4G LTE Module	4G LTE Module(Onboard)/GPS(Optional)				
Peripherals					
Microphone	Audio input interface.				
Loudspeaker	Audio output interface. 5W/8Ω				
TF card	Yes				
IIC	1				
IO interface	4				
Output Power	Three connectors output 3.3V /5V /12V, one of three				

Interface Description



Num.	Interface Name	Description
J0	Power	12V/2A power supply (maximum voltage ranges 24V DC)
J1	RJ45 interface	Support 10M/100M network
J2	USB_Micro	OTG /App debugging/ Firmware upgrade interface
J3	SIM card	Micro-SIM supported
J4	USB_HOST1	Support USB Peripherals
J5	USB_HOST2	Support USB Peripherals
J6	UART4	Device name: ttyS4, TTL/485, Pin definition: 5V, RXD, TXD, GND
J7	UART3	Device name: ttyS3, TTL ,Pin definition: 5V, RXD, TXD, GND
J8	UART1	Device name: ttyS1, RS232 ,Pin definition: 5V, RXD, TXD, GND
J9	UART0	Device name: ttyS0, RS232 ,Pin definition: 5V, RXD, TXD, GND
J10	IO interface	Pin definition:ADC0,ADC1,I/O,I/O

