

P10600HY070K_T01

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



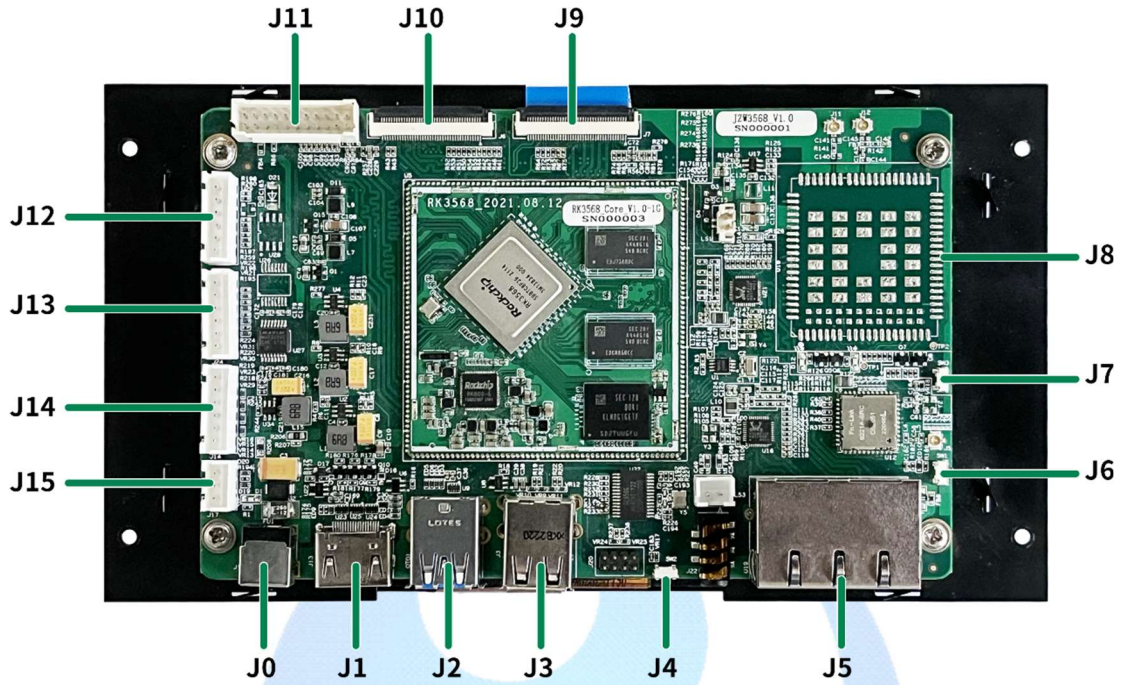
P10600HY070K_T01 is an industrial level Android LCM based on Rockchip RK3568 ARM. It is equipped with Quad-core Cortex-A55, supporting most decoding solutions under 1080p@60fps, H.265/H.264/MVC/VP8 solutions and many other great features of Rockchip RK3568. Meanwhile, with good jpeg picture processing performance and 3D GPU, it supports OpenGL ES2.0 and OpenVG1.1.

Rockchip RK3568 has high-performance external memory interface (DDR4/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	2.0GHz Quad-core A55 ARM					
RAM	2GB DDR4					
eMMC	8GB					
GPU	Mali-G52					
Power Management	RK809					
System Version						
Android	Android 12					
Ubuntu	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	—	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 (4 *TTL 3.3V)				
USB	USB 2.0 HOST*2, USB 3.0 HOST*1, USB 3.0 OTG*1				
Ethernet	Support 10m/100m/1000m Ethernet.				
Wi-Fi/Bluetooth	Support 802.11b/g/n Wi-Fi wireless 5G network; Bluetooth 5.0				
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
J1	HDMI interface	HDMI output interface
J2	USB_HOST1	USB 3.0 OTG*1/ USB 3.0 HOST*1
J3	USB_HOST2	USB 2.0 HOST*2
J4	PWR_KEY	-
J5	RJ45 interface	Support 10M/100M/1000M network
J6	SW_KEY	-
J7	RESET	Reset
J8	4G interface	4G interface
J9	LVDS interface	LVDS interface
J10	MIPI Camera	MIPI Camera
J11	UART9&GPIO	-
J12	RS485&UART6	-
J13	RS232_0&5	-
J14	DEBUG	-

