

P10600MS070I_B01

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



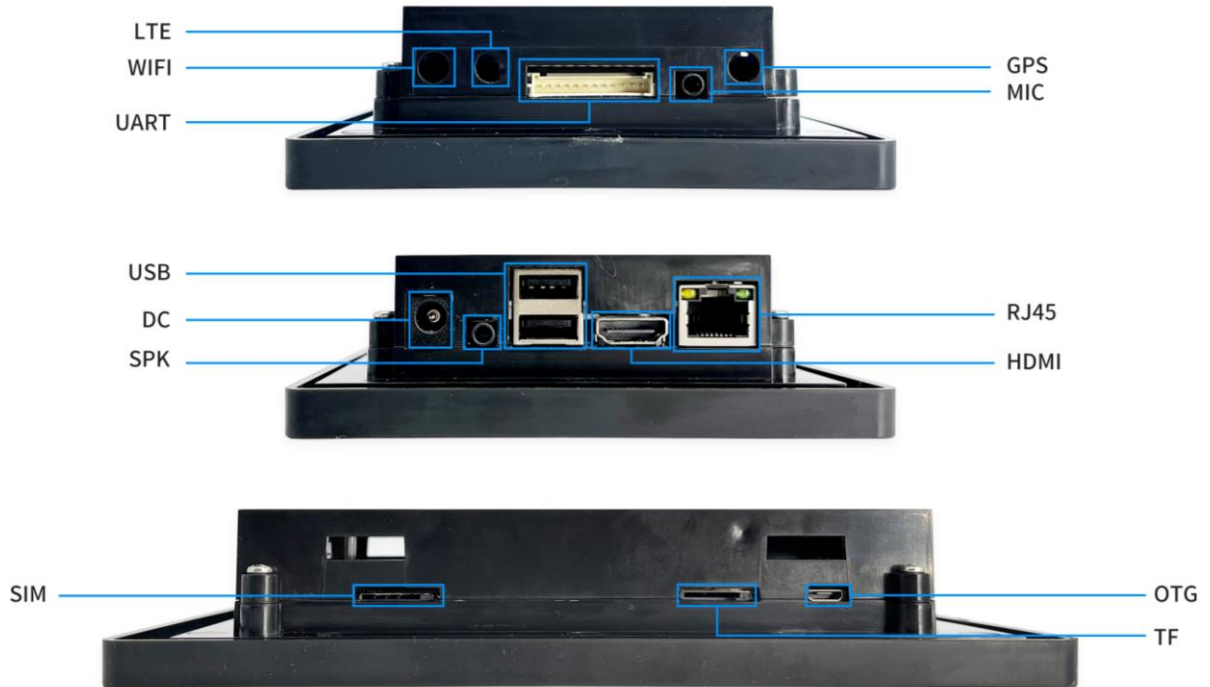
P10600MS070I_B01 is an industrial level Android LCM based on Rockchip RK3188 ARM. It is equipped with Quad-core Coretex-A9, supports most decoding solutions under 1080p@60fps, H.264/MVC/VP8 solutions under 1080p@30fps and many other great features of Rockchip RK3188. Meanwhile, with good jpeg picture processing performance and 3D GPU, it supports OpenGL ES2.0 and 1.1 OpenVG1.1.

RK3188 has high-performance external memory interface (DDR3/LPDDR2/LVDDR3) capable of sustaining demanding memory bandwidths, also provides a complete set of peripheral interface to support very flexible applications.

Core Board						
CPU	1.6 GHz Quad-core A9 ARM					
RAM	1GB DDR3					
eMMC	8GB					
GPU	Mali400MP4					
Power Management	ACT8846 PMU					
System Version						
Android	Android 5.1					
Ubuntu	Ubuntu 13.09 (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≥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	—		—	500	—	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*2 (1*RS232/TTL, 1*RS485/RS232/TTL)				
User Interface	Standard serial communication protocol. 12Pin_2.0mm socket.				
USB	USB HOST*2				
Ethernet	Support 10m/100m Ethernet.				
Wi-Fi	Support 802.11b/g/n Wi-Fi wireless network.				
4G LTE Module	4G LTE Module/GPS. (Optional)				
Peripherals					
Microphone	Audio input interface.				
Loudspeaker	Standard 3.5mm headphone jack				
HDMI	HDMI output interface. (Optional)				
TF card	Yes				
GPIO	Reserved				

Interface Description



Interface Name	Description
LTE	LTE antenna interface
WIFI	WIFI antenna interface
UART	Pin definition:5V、RX1、TX1、GND、5V、RX0、TX0、GND、485/B、485/A、PWM、GND
GPS	GPS antenna interface
MIC	Audio input interface
USB	Support USB Peripherals
DC	12V/2A power supply (maximum voltage ranges from 6V to 16V DC)
SPK	audio output interface
RJ-45 interface	Support 10M/100M network
HDMI	HDMI output interface (Optional)
SIM card	Micro-SIM supported
OTG interface	OTG /App debugging/ Firmware upgrade interface
TF card	TF card

