

Android All in One Panel PC Easy Capacitive Touch 12 Inch

Size: 12"

12 inch industrial tablet PC with Android system, features a modern 10-point, capacitive multi-touch screen. These industrial all-in-one PCs combine with rugged industrial-grade components to help create an efficient computing solution.







Android All in One Panel PC Easy Touch 12"

Model: SD120-A2

SD-OMEGA industrial tablet PC designed to operate under harsh industrial environments. IP65 rated waterproof and dust-proof for the front panel. They are designed to withstand vibration and shock. Safe during shipment. Support fanless cooling system, without noise during running. Easy to install and maintain for users. Offer multi-point capacitive touch and non-touch, also support non-touch for the panel PC according to different applications.

SD-OMEGA All-in-one PC Features

- The industrial Android panel PC is designed with a seamless full-flat front panel, easy to maintain, suitable for embedded installation.
- IP65 rated dustproof and water-proof, effectively withstanding the infiltration of dust and water vapor.
- Aluminum alloy shell with high hardness, 7 Moh's level industrial screen.
- Shock-proof, high and low-temperature resistance, working temperature range up to - 20 ~ 70°C.
- The rear cover of the panel PC is designed with a circular arc structure, high heat-dissipation performance.
- Anti-EMI: it meets EMI/EMC standards, performs perfectly in harsh conditions.
- Reserved dustproof&waterproof horn hole: the horn adapts to the technology of industrial sound transmission material, supports dust/waterproof.
- External key adjustment function: built-in button for adjustment of screen brightness, it reduced complex and tedious operation.
- Offer rich I/O ports: RJ45, HDMI, DVI, VGA, and special anti-drop DC.
- The Android all-in-one PC support multi-type of installation methods for different applications.

Display Parameters	Size	12"						
	Resolution	1024x768						
	Screen Ratio	4:3						
	Brightness	500 nits (Optional high brightness)						
	Contrast Ratio	1000:1						
	Viewing Angle	89/89/89/89 (L/R/U/D)						
	Backlight type	LED backlight screen, service life ≥ 50000H						
	Touch Screen	Capacitive, Resistive, or Non-touch options						
Motherboard Model Selection		SD64	SD3288-I	SD3399-MAIN-L	SD3399-A	SD3568-A	SD3588-A	SD3588-G
System Architecture	CPU	A64 Quad-Core 1.5GHz	RK3288 Quad-Core 1.8GHz	RK3399 Six-Core 2.0GHz	RK3399 Six-Core 2.0GHz	RK3568 Quad-Core 2.0GHz	RK3588 Octa-Core 2.1GHz	RK3588 Octa-Core 2.1GHz
	Core Architecture	Cortex-A53	Cortex-A17	Dual-Core Cortex-A72 + Quad-Core	Dual-Core Cortex-A72 + Quad-Core	Cortex-A55	Quad-Core Cortex-A76 + Quad-Core	Quad-Core Cortex-A76 + Quad-Core

								module interface	
	WIFI	2.4G	Dual-band 2.4/5G	Dual-band 2.4/5G	Dual-band 2.4/5G	WIFI6, 2.4G	WIFI6, Dual-band and 2.4/5G	WIFI5/WIFI6 (optional), dual-band 2.4/5G	
	Bluetooth	BT5.0	BT5.0	BT5.0	BT5.0	BT5.2	BT5.0	BT4.2 (WIFI 5) / BT5.0 (WIFI 6)	
Display Function	LVDS	Support 1920*1080 60Hz output							
	EDP	/	1920*1080 60Hz output					4K 3840*2160 output	
	MIPI	Support 1920*1080 60Hz output							
	Mipi Camera	30pin FPC interface, support 1300W Camera							
	HDMI Output	HDMI 2.0, support 4K 3840*2160 60Hz output					HDMI 2.1, support 8K 7680*4320 60Hz output		
	HDMI Input	/	HDMI Input, 24-pin FPC custom interface	/	HDMI Input, 24-pin FPC custom interface	/	/	HDMI 2.0, support 4K 3840*2160 60Hz input	
Touch Function	Touch Interface	USB/IIC	USB	USB/IIC					
I/O Ports	MICRO USB	1*MICRO USB (OTG)	/	/	/	/	/		

USB 2.0	USB2.0*2 + USB2.0*4 on board	USB2.0*2 (including OTG*1) + USB2.0*6 on board	USB2.0*5 on board	USB2.0*1 + USB2.0*5 on board	USB2.0*4 on board	USB2.0*1 + USB2.0*4 on board	USB2.0*5 on board
USB 3.0	/	/	USB3.0*2 (including OTG*1)	USB3.0*1 (OTG)	USB3.0*2 (including OTG*1)	USB3.0*1 (OTG)	USB3.0*4 (including OTG*1)
RS232	3*RS232/TTL mutual conversion	1*RS232, 2*TTL/RS232 optional	RS232*2	RS232*2	RS232*2	RS232*2	RS232*1; RS232/TTL*2 (optional)
RS485	/ (Unless install RS232 to RS485 converter)	install RS232 converter)	RS485*1	RS485*1	RS485*1	RS485*1	RS485*1
TTL	3*RS232/TTL mutual conversion	1*RS232, 2*TTL/RS232 optional	TTL*2	TTL*2	TTL*2	TTL*2	TTL*1; RS232/TTL*2 (optional)
GPIO	3*GPIO output, 1*GPIO input, and 1*ADC port	GPIO*7 (input/output)	GPIO*8 (input/output)	GPIO*8 (input/output)	GPIO*12 (input/output)	GPIO*6 (input/output)	

	SIM Slot	Support	Support	Support	Support	Support	Support	Support
	TF Slot	Support	Support	Support	Support	Support	Support	Support
	CAN	/	/	/	/	Support	Support	
	Speaker	3.5mm standard Jack						
	MIC	Support	Support	Support	Support	Support	Support	Support
	Audio Port	3.5mm earphone jack, support input/output						
	I/O Expansion	Available						
Power	Power Input	12V DC	12V DC	12-36V DC	12-36V DC	12-36V DC	12-36V DC	12-36V DC
	Adapter	12V / 4A	12V / 4A	24V / 2.5A	24V / 2.5A	24V / 2.5A	24V / 2.5A	24V / 2.5A
Mechanical	Dimension	319*257*56.5mm						
	Enclosure	Aluminum alloy housing						
	Cooling System	Fanless						
	Mounting	Panel-mount, Embedded, desktop, wall-mounted, VESA75/100mm, open frame, etc.						
Product	Working	-20°C ~ 70°C						

Reliability Y	Temp	
	Storage Temp	-30°C ~ 80°C
	Ambient Humidity	5% - 95% (relative humidity non-condensing)
	IP rating	Front IP65