

Android 9.0 Industrial Panel PC 21.5 Inch with 4G LTE WiFi Quad-Core For Meeting Room Smart Education

Size: 21.5"

21.5-inch industrial Android panel PC with thin front bezel and 1920*1080 full HD 16:9 industrial screen, suitable for education equipment, and paperless meeting room system.







Android Industrial Panel PC Touch Screen 21.5"

Model: SD215-A2

SD-OMEGA 21.5" industrial-grade Android industrial tablet PC with a changeable front bezel thickness for kinds of industrial applications, commercial terminal devices, and a variety of IoT scenarios.

This is SD-OMEGA 2nd-GEN industrial Android Panel PC, it's the best-seller in the market for embedded installation at present due to its perfect thin front bezel design. Aluminum alloy material for the whole shell, low power consumption, the compact and ultra-thin panel design meets all kinds of embedded mounting under harsh environments and offers 7 days * 24 hours long-time running. In terms of the materials of the whole touch screen PC, we pay more attention to the features of reliability, environmental adaptability, real-time, expansion, EMC compatibility, etc. They are widely used in intelligent fields such as smart education systems, industrial control, military, communication, power, network, etc.

Display Parameters	Size	21.5"
	Resolution	1920x1080
	Screen Ratio	16:9
	Brightness	250~300 nits (Optional high brightness)
	Contrast Ratio	1000:1
	Viewing	89/89/89/89 (L/R/U/D)

	Angle							
	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 Cortex-A53	Dual-Core Cortex-A72 + Quad-Core Cortex-A53	Cortex-A55	Quad-Core Cortex-A76 + Quad-Core Cortex-A55	Quad-Core Cortex-A76 + Quad-Core Cortex-A55
	GPU	Mali-T764	Mali-T764	Mali-T860 MP4	Mali-T860 MP4	Mali-G52 2EE	Mali G610 MP4	Mali G610 MP4
	Memory (DDR)	2GB (8GB optional)	2GB (4GB optional)	4GB	2/4GB	2GB (4/8GB optional)	4GB (8/32GB optional)	8GB (16/32GB optional)
	Storage (eMMC)	16GB (32/64GB optional)	16GB (32/64/128/256GB optional)	32GB (64GB optional)	32/64GB (256GB optional)	32GB (64/128/256GB optional)	64GB (128/256GB optional)	64GB (128/256GB optional)
	SATA	/	/	/	/	Support	/	1*SATA hard drive

								port
	Operating System	Android 6.0	Android 7.1 / 10.0 / Linux4.4 / Ubuntu18.04 / Debian10.0	Android 7.1 / 9.0 / 11 / Ubuntu18.04 / Debian10.0 / Linux4.4	Android 7.1/9.0/11, Linux 4.4 / Ubuntu 18.04 / Debian 10	Android 12 / Linux5.10 / Ubuntu 20.04 / Debian 11	Android 13.0	Android 12 / Linux 5.10 / Debian11 / Ubuntu 20.04
Networking	Ethernet	1*10M/100M/100M adaptive Ethernet	1*10M/100M/100M adaptive Ethernet	1*10M/100M/100M adaptive Ethernet	1*10M/100M/100M adaptive Ethernet	1*10M/100M/100M adaptive Ethernet	1*Gigabit Ethernet + 1*100 Mbit Ethernet	2*10M/100M/1000M adaptive Ethernet
	4G	Optional. Based on the 4G module selection						
	5G	/	/	/	/	/	/	Support M.2 5G 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 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)

	ersion						
RS485	/ (Unless install RS232 to RS485 converter)	RS485*1	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	
TF Slot	Support	Support	Support	Support	Support	Support	
CAN	/	/	/	/	Support	Support	
Speaker	3.5mm standard Jack						
MIC	Support	Support	Support	Support	Support	Support	
Audio Port	3.5mm earphone jack, support input/output						
I/O Expansion	Available						

Mechanical	Dimension	558*345*63mm						
	Enclosure	Aluminum alloy housing						
	Cooling System	Fanless						
	Mounting	Panel-mount, Embedded, desktop, wall-mounted, VESA75/100mm, open frame, etc.						
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
Product Reliability	Working Temp	-20°C ~ 70°C						
	Storage Temp	-30°C ~ 80°C						
	Ambient Humidity	5% - 95% (relative humidity non-condensing)						
	IP rating	Front IP65						