

Industrial Grade Android Tablet PC 19 Inch Quad-core 1.5GHZ

Size: 19"

19-inch industrial Android panel PC equipped with industrial mainboard for harsh environments. They are built with rich I/O expansion and multiple industrial touch panel sizes to meet industrial field standards and designed to resolve the toughest industrial automation duties in process control, machine vision, smart manufacturing environments.







19" Industrial Android Touch Screen Computer

Model: SD190-A2

SD-OMEGA Android industrial tablet PCs are designed to perfect-performed under extremely high or low-temperature industrial environments. They are support sunlight readable for outdoor terminals and self-service devices for 24 hours*7 days.

SD-OMEGA Industrial Android All-in-one Tablet PC Features

- Fanless cooling design, without noise, prolong the industrial all-in-one PCs' service life.
- Resolution 1280 x 1024 dpi
- Ten-point capacitive or mouse control
- IP65 rated waterproof and dust-proof for the front bezel
- Support customized port for different customers' requirements.

Display Parameters	Size	19"
	Resolution	1280x1024
	Screen Ratio	5:4
	Brightness	250~300 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 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 + USB 2.0*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	1*RS232, 2*TT	RS232*2	RS232*2	RS232*2	RS232*2	RS232*1; RS232/	

	/TTL mutual conversion	L/RS232 optional					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	
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 Expa	Available						

	nsion							
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	451*380*63mm						
	Enclosure	Aluminum alloy housing						
	Cooling System	Fanless						
	Mounting	Panel-mount, Embedded, desktop, wall-mounted, VESA75/100mm, open frame, etc.						
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						