Rugged IP65 Industrial Touchscreen Computer Industrial HMI Panel PC

Size: 10.1" ~ 21.5"

SD-OMEGA's new 5th-GEN industrial touch screen panel PC with fanless design is a reliable product specifically designed for industrial HMI automation applications.

LAN   WIFI   WIFI   POWER

DC   USB   USB   LAN   HD/SIM   VGA   Audio I/O   12V GND TX1 RX1 TX2 RX2

SD-OMEGA 5th-GEN Rugged Industrial Fanless Panel PC - Windows System

The Right Touch Control & Display Panel For Industrial Automation

SD-OMEGA 5th-generation 10.1-21.5" rugged industrial panel PC with Windows system are perfect HMI touch panel solutions for Industry 4.0, industrial automation, equipment manufacturing, and IoT applications.

Product Features

● SD-OMEGA 5th-generation industrial panel PC Windows system.
● 10.1" to 21.5" available for different applications.
● Support multi-touch capacitive touch screens, 4/5-wire resistive touch screens.
● Intel Celeron J1900 quad-core processor, 2G/4G DDR3L memory.
● Industrial-grade LED touch screen, backlight life of over 50,000 hours.
● Aluminum alloy structure, resistant to corrosion/heat/chemical damage.
● Abundant interface, USB+VGA / LAN / DC interface, etc.Support I/O expansion.
● Install WiFi antenna for signal enhancement
● IP65 rating protection standard keeps a reliable operation in dust/oil/electromagnetic interference environments.
● 7*24 hours long-term uninterrupted operation.
● Various installation methods adapt to multiple environments.

Model Name	Screen Size	Resolution	Aspect Ratio
SD101-W5	10.1"	1280*800	16:10
SD104-W5	10.4"	1024*768	4:3
SD116-W5	11.6"	1920*1080	16:9
SD120-W5	12"	1024*768	4:3
SD150-W5	15"	1024*768	4:3
SD156-W5	15.6"	1920*1080	16:9
SD170-W5	17"	1280*1024	5:4
SD173-W5	17.3"	1920*1080	16:9
SD190-W5	19"	1280*1024	5:4
SD191-W5	19.1"	1440*900	16:10
SD215-W5	21.5"	1920*1080	16:9

Configuration	CPU	Intel Celeron J1900 Quad-core 2.0GHz	Intel Celeron J4125 Quad-core 2.0GHz	Intel Celeron J6412 Quad-Core 64-bit, 2.0GHz
	Hard disk	SSD 64GB (128/256/512GB optional)	SSD 64GB (128/256/512GB optional)	EMMC 256GB
	RAM	DDR3 1333/1600M 4GB (8GB optional)	DDR3 1333/1600M 4GB (8GB optional)	8GB (16GB optional)
	Chipset	Intel HD Graphics	Intel HD Graphics	Intel Bay Trail SOC
	Operating system	Win7 / Win10 / Ubuntu (16.04.7/18.04.5/18.04.6/ 20.04.1) / Centos (7.4/7.8) / Redhat7.4 / Debian7.0	Win10 / Win11 / Ubuntu (16.04.7/ 18.04.6) / Centos (7.8/8.4)	Win10 / Win11
	Graphics card	Integrated HD Graphic display core	Integrated HD Graphic display core	Integrated HD Graphic display core
	WiFi	Dual-band 2.4G/5G	Dual-band 2.4G/5G	Dual-band 2.4G/5G
	Bluetooth	BT4.0	BT4.0	BT5.2
	GPS & MIC	Optional	Optional	Optional
	Wake-on-LAN	Support	Support	Optional
	RTC & Plug-n-Play	Support	Support	Support
Screen	Gray-scale response time	6.5ms		
	Panel type	Industrial control A level screen with TFT		
	Point distance	0.264mm		
	Contrast	600:1 / 800:1 / 1000:1		
	Backlight type	LED, span life≥50000h		
	Display color	16.7M		
	Visual angle	160/160°(178° full view angle is customizable)		
	Brightness	300~1500cd/m2 (support high brightness)		
	Touch-type	Resistive / Capacitive / Mouse control		

I/O Interface	USB	7"~10.4": USB2.0*2; Other sizes: USB2.0*3+USB3.0*1
	Power connector	1*DC2.5, support 12~36V wide voltage operation
	Signal Interface	Support HDMI data output, up to 1080P; VGA: Standard DB15 interface
	RJ45 Ethernet	1*Realtec8111F Gigabit interface, supports wake-on-LAN (dual network ports optional)
	Earphone Jack	3.5mm standard interface
	SIM	Standard SIM card slot supports various formats
	Serial interface	7" ~ 10.4": COM*1; Other sizes:COM*2, default with RS232, RS422/RS485 for optional
	I/O expansion	Support
Power	Power consumption	≤48W
	Power input	DC 12V~36V
Mechanical	Color	Black / Silver
	Housing material	Aluminum Alloy
	Installation method	Embedded, desktop, wall-mounted, VESA, Open frame for optional
Reliability	Relative humidity	95%, Non-Condensing
	Working temperature	-10°C～60°C (-30°～80°C customizable)
	Anti-static	contact 4KV-air 8KV (≥16KV can be customized)
	Anti-vibration	GB2423 standard
	Anti-interference	EMC	EMI anti-electromagnetic interference
	Dustproof and waterproof	IP65 dust-proof and waterproof for the front panel
	Language menu	Chinese, English, German, French, Korean, Spanish, Italian, Russian