

Open Frame Monitor With Touchscreen Displays

Size: 8" ~ 21.5"

SD-OMEGA industrial open frame monitors can be used in a variety of applications, such as electric cabinets, ATM machines, casino machines, vending machines, and other kiosk solutions.



Industrial Open Frame Monitor With Touchscreen Displays

SD-OMEGA open frame touchscreen display with industrial-grade motherboards provides intelligent hardware solutions for industrial automation, Internet of Things projects. These industrial open frame LCD monitors deliver multi-point touch control or single-point touch control screens, excellent for various self-service terminals and industrial environments due to their reliable performance.

We offer open frame displays product line with a wide range of sizes, 7" to 21.5" for standard models, also support other screen sizes with massive quantity. Other customization items include high brightness, I/O interfaces,

touch technologies and viewing angle, wide temperature and wide voltage operation, etc.

Industrial Open Frame Screen Features

- TFT LCD display: 7"/8"/10"/11.6"/12"/15"/15.6"/17"/17.3"/19"/21.5"
- Touch Screen: Multi-touch capacitive, 4/5-wire resistive or Non-touch screen
- Support modularly configured and I/O expanded
- Unique universal installation design
- Waterproof edge protection, water seepage prevention, and shock mitigation
- Industrial grade drive board, anti-static, and anti-electromagnetic interference
- Internal heat dissipation structure design, supporting 7*24 hours long-term uninterrupted operation
- The surface is IP65 dust-proof and waterproof, and fully dust-proof for the whole monitor
- SD-OMEGA industrial open frame monitors support Windows, Linux, and Android.
- Particularly suitable for use in harsh industrial environments

Products Details

Open frame monitor

It is suitable for all kinds of equipment with open-back mounting. High flexibility. It can modify the counterbore structure according to the different requirements of the equipment application. The front flat panel shows a perfect embedded effect, easy to clean and maintain.

Simple Installation and Support Customized Counterbore

It adopts a sheet metal frame and aluminum alloy back cover, with a smooth and flat surface, solid and durable body, good heat dissipation, compact and reasonable internal structure, compression resistance, high and low-temperature resistance, shockproof, electromagnetic interference resistance, and other functions.

Multiple I/O Interface, Support Expansion

Self-developed anti-shedding DC interface design, to prevent the interfaces' falling off and stopping power supply due to vibration, collision, and other conditions of the monitor. The touch interface adopts a standard 8-bit modular RJ45 interface, with fast transmission speed, stable and accurate touch.

Heat-dissipation Design for Long-term Uninterrupted Operation

Aluminum alloy material with good heat dissipation performance, combined with the self-developed heat dissipation structure layout design, improve the heat dissipation performance to a certain degree and adopt industrial-grade components, LCD screen, drive board, the monitors keep reliable performance in the temperature of -10 ~ 60 °C, and support stable operation in other harsh environments for a long time.

Independent R&D of Industrial-grade Motherboard

PCB wiring design, up to EMI / EMC standard, anti-vibration protection level up to GB2423B standard, and with anti-electromagnetic interference, anti-static, anti-surge, wide temperature operation, and wide voltage characteristics.

Product Models	Model	Screen Size	Resolution	Aspect Ratio
	SD080-M4-OF	8"	1024*768	4:3
	SD101-M4-OF	10.1"	1280*800	16:10
	SD104-M4-OF	10.4"	1024*768	4:3
	SD116-M4-OF	11.6"	1920*1080	16:9
	SD120-M4-OF	12"	1024*768	4:3
	SD150-M4-OF	15"	1024*768	4:3
	SD156-M4-OF	15.6"	1920*1080	16:9
	SD170-M4-OF	17"	1280*1024	5:4
	SD173-M4-OF	17.3"	1920*1080	16:9
	SD190-M4-OF	19"	1280*1024	5:4
	SD191-M4-OF	19.1"	1440*900	16:10
SD215-M4-OF	21.5"	1920*1080	16:9	

Screen Parameters	Gray-scale response time	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

Other Parameters	Power consumption	≤35W
	Power input	AC 100-240V, 50/60HZ
	Power Output	DC 12V / 4A
	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
	Housing material	Black/Silver, Aluminum Alloy
	Installation method	Open frame, Embedded, desktop, wall-mounted, VESA
	Relative humidity	95%, Non-Condensing
	Working temperature	-10°C~60°C (-30°~80°C customizable)
	Language menu	Chinese, English, German, French, Korean, Spanish, Italian, Russian
I/O Interface	Signal Interface	DVI, HDMI, VGA
	Power connector	DC with ring attachment (optional DC terminal block)
	Touch interface	USB I/O Interface
	Other interfaces	Audio input and output