

FLEXEM——Capacitive HMI 5000 Series

Module: FE5070

Overview

- Multi-touch capacitive touch screen, scratch-resistant, no drift.
- The main board is treated with a special coating (three anti-paint) to adapt to harsh environment.
- Support multiple handheld operations, more friendly human-machine interaction experience.
- High resolution, high brightness, wide viewing angle.
- New configuration software, rich library, powerful features.
- Isolated power supply, protected from thunderstrike and surging.
- 4-way serial port, with Ethernet port, more powerful expansion function.

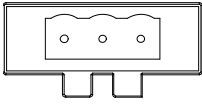
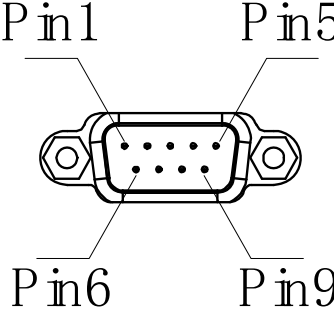
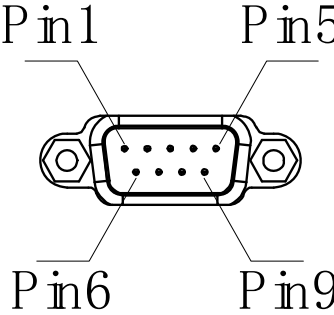
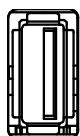


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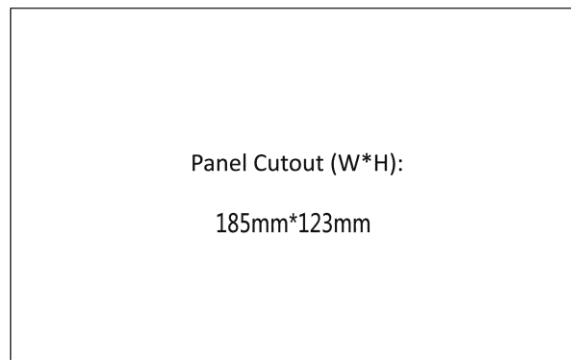
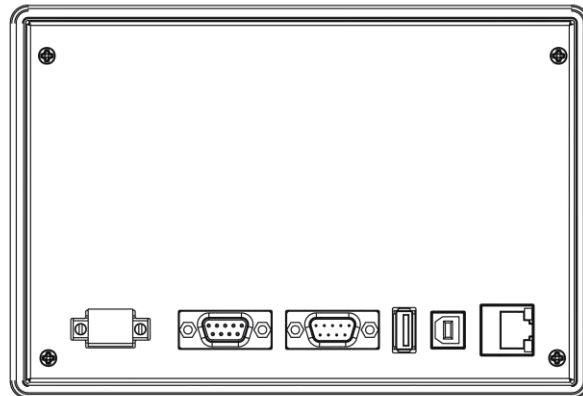
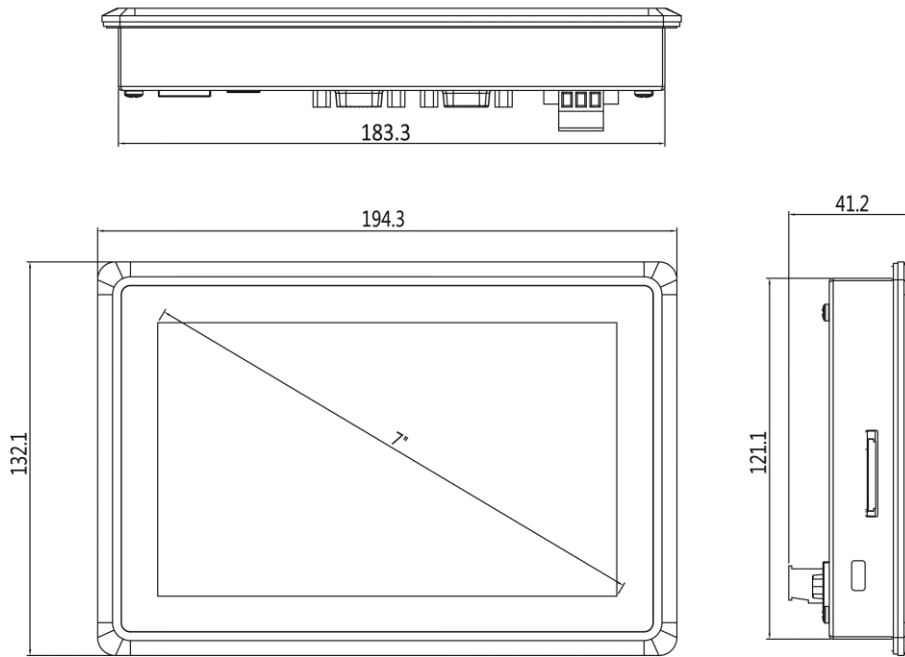
Specifications

Hardware parameter	Display	7" 16:9 TFT LCD, wide view
	Resolution(WxH)	1024×600
	Colors	24-bit
	Brightness	450 cd/m ²
	Backlight	LED
	LCD Life	50000 hours
	Touch Panel	Glass+Glass projective multi-touch capacitive HMI
	CPU	600MHz ARM Cortex-A8
	Memory	128M Flash + 128M DDR3
	RTC	Built in
	SD Card Port	Available
	Ethernet	10M/100M Adaptive
	USB Port	USB Slave 2.0 Port*1, USB Host 2.0 Port*1
	Download Project	USB Slave Port/U-disk/Ethernet
	COM Port	COM1/COM2: RS232/RS485/RS422, COM3/COM4: RS232
	LCD viewing angle (T/B/L/R)	70°/75°/75°/75°
Electrical Specifications	Power Consumption	< 10W
	Input Power	DC24V,working range DC 18V~28V
	Power Protection	Isolated power supply, protected from thunderstrike and surging
	Power Down Allowed	< 5mS
	CE & RoHS	Complied with EN61000-6-2:2005, EN61000-6-4:2007,RoHS, Surge Immunity:±1KV, EFT:±2KV,ESD:4KV, Air:8KV
Environment Specifications	Operating Temperature	-20~60°C
	Storage Temperature	-30~80°C
	Anti-UV	Not suitable to work in strong ultraviolet light (such as direct sunlight)
	Operating Humidity	10~90%RH(No condensation)
	Vibration Endurance	10~25Hz(X,Y,Z direction 2G/30 minutes)
	Cooling	Natural air cooling
Mechanical Index	Degree of protection	Front IP65(with NEMA panel),Back IP20
	Enclosure	The front panel is made of aluminum alloy, the surface is hardened and oxidized, the back shell is galvanized, and the surface is powdered.
	Panel Cutout (WxH)	185mm×123mm
	Dimension	194.3mm×132.1mm×41.2mm
	Weight	About 800g

Wiring definition

Power terminal (Pin1~Pin3 from left to right)		
	Pin1	FG
	Pin2	0V
	Pin3	DC24V
DB9 Serial terminal (COM1/COM3)		
	Pin1	Rx-(B)
	Pin2	RxD (COM1 RS232)
	Pin3	TxD (COM1 RS232)
	Pin4	Tx-
	Pin5	GND
	Pin6	Rx+(A)
	Pin7	RxD (COM3 RS232)
	Pin8	TxD (COM3 RS232)
	Pin9	Tx+
DB9 Serial terminal(COM2/COM4)		
	Pin1	Rx-(B)
	Pin2	RxD (COM2 RS232)
	Pin3	TxD (COM2 RS232)
	Pin4	Tx-
	Pin5	GND
	Pin6	Rx+(A)
	Pin7	RxD (COM4 RS232)
	Pin8	TxD (COM4 RS232)
	Pin9	Tx+
USB Host		
	USB Type A	Used to connect U disk, scan code gun and other peripherals.
USB Slave		
	Micro USB	Used to download programs and debug.
Ethernet port		
	RJ45	Used for Ethernet setup with the controller or for connecting to a server.

Size FE5070



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