

FLEXEM——Capacitive HMI 5000 Series

Module: FE5097X

Overview

- Multi-touch capacitive touch screen, sensitive and clear, scratch-resistant, no drift.
- The main board is treated with a special coating (three anti-paint) to adapt to harsh environment.
- It supports 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.

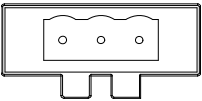
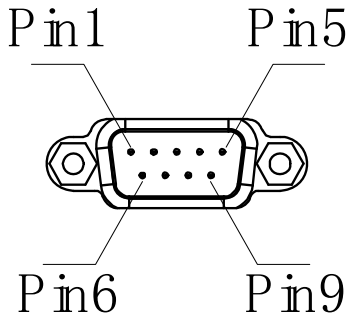
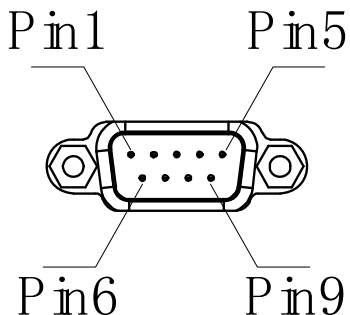
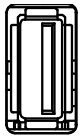


Appearance



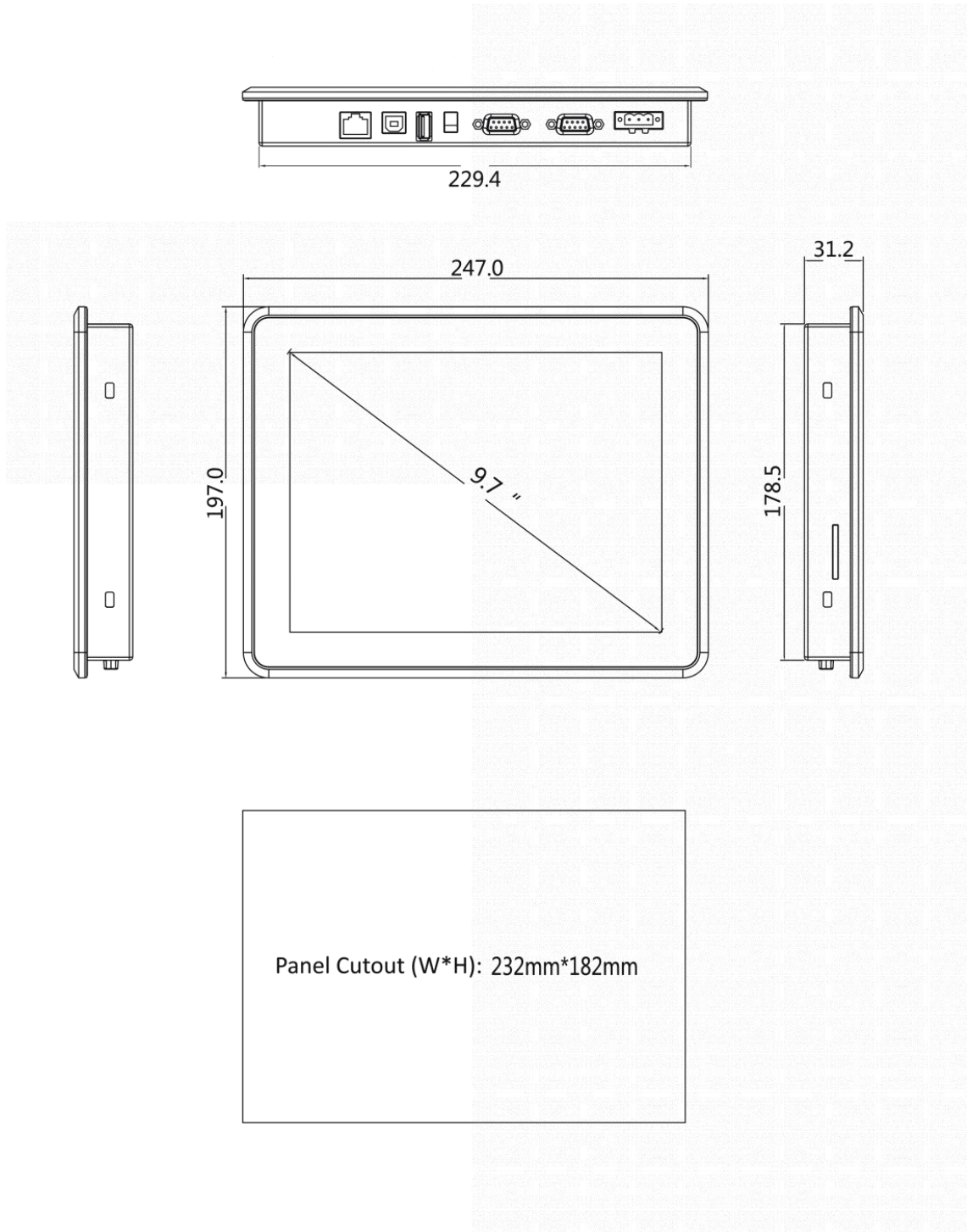
Specifications

Hardware parameter	Display	9.7" 4:3 TFT LCD
	Resolution(WxH)	1024×768
	Colors	16-bit
	Brightness	350 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
Electrical Specifications	LCD viewing angle (T/B/L/R)	85'/85'/85'/85'
	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
Environment Specifications	CE & RoHS	Complied with EN61000-6-2:2005, EN61000-6-4:2007,RoHS, Surge Immunity:±1KV, EFT:±2KV,ESD:4KV, Air:8KV
	Operating Temperature	-10~60°C
	Storage Temperature	-20~70°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)
Mechanical Index	Cooling	Natural air cooling
	Degree of protection	Front IP65(with NEMA panel),Back IP20
	Enclosure	Aluminium alloy + galvanized sheet covering powder
	Panel Cutout (WxH)	232mm×182mm
	Dimension	247mm×197mm×31.5mm
Weight	About 1240g	

Wiring definition

Power terminal (Pin1~3 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 FE5097X



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