FPAD710X

规格书（Datasheet）

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服务热线（Service hotline）：4008-033-022

官方网站（Website）：www.flexem.com

1 Product Overview

1.1 Product introduction

The FPAD7 series HMI is a new generation of Web HMI, it adopts the new aesthetic structure design, provides reliable, cost-effective solutions for customers; it supports Web-based remote access and configuration,supports edge computing functions.IT provides Dual Gigabit Ethernet ports to meet the needs of on-site data interconnection.

FPAD710X is a 1280×800 projected capacitive screen that supports 5-point simultaneous touch. It can play HD video via high-resolution screen. Thin and light housing, flush-mounted installation and VESA installation are supported. A variety of sizes are available to meet the needs of different application scenarios.

1.2 Product Appearance



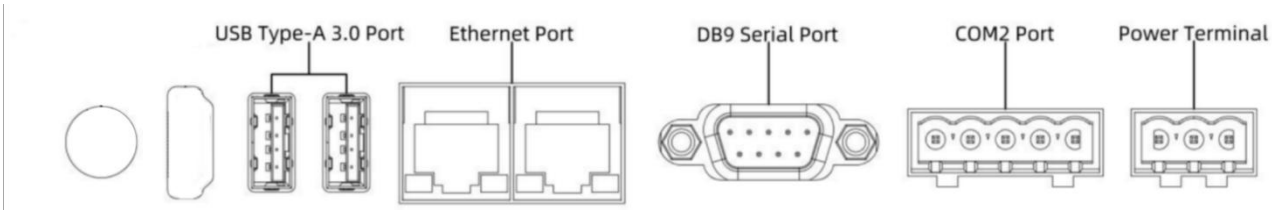


2 Specifications

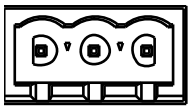
category	Item	Description
Hardware	Display	10.1” 16:10 TFT LCD
	Resolution	1280×800
	Colors	24 bit
	Brightness	400 cd/m²
	Backlight	LED
	LCD Lifetime	50000 hours
	Touch Panel	Glass+Glass Projection multi-point capacitive touch screen
	LCD Viewing Angles (T/B/L/R)	85° /85° /85° /85°
	CPU	8nm AI SoC, octa-core 64-bit architecture(Peformance core+Efficient core): 4*Cortex-A72 + 4*Cortex-A53, 2.2GHz; AI arithmetic power 6.0Tops
	GPU	ARM mali G52 MC3
	Storage	2GB DDR4+16GB eMMC
	RTC	Built-in
	Ethernet	2*Gigabit Ethernet port(10M/100M/1000M)
	USB Port	2*USB Type-A 3.0 port
	Serial Port	◆ COM1: RS232/RS485/RS422 ◆ COM2: RS485/RS422 ◆ COM3: RS232
Electrical feature	Rated Power	< 15W
	Rated Voltage	DC24V,input range: 18V~28V
	Power Protection	With lightning surge protection
	Power Interruption Tolerance	< 5ms
	CE & RoHS	EN61000-6-2:2019 and EN61000-6-4:2019standards certified;RoHS certified;lightning;surge±1kV;group pulse±

category	Item	Description
		2kV;electrostatic contact 4kV, air discharge 8kV
Environmental requirement	Operating Temperature	-10~60℃
	Storage Temperature	-20~70℃
	UV Resistance	Operating in high UV environment is prohibited (e.g., in direct sunlight)
	Environmental Humidity	10%~90%RH (non-condensing)
	Vibration Endurance	10~25Hz (X/Y/Z direction, 2G/30 minutes)
	Cooling Method	Natural Cooling
Mechanical feature	Installation Method	Flush-mounted installation/VESA installation
	Protection Level	Front: IP65（with NEMA enclosure），Rear: IP20
	Enclosure Material	Non-ferrous alloys
	Cutout Dimensions	260mm×202mm
	Dimensions	274mm×214mm×27mm
	Weight	About 1450g

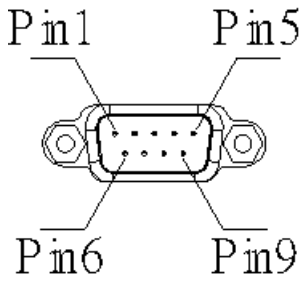
3 Port Description



3.1 Power Terminal

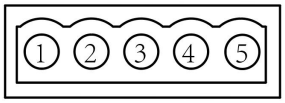
Power Terminal (Pin 1~3 from left to right)	Pin	Description
	Pin1	DC24V
	Pin2	GND
	Pin3	FG

3.2 DB9 Serial Port

	Pin	COM1(RS485)	COM1(RS422)	COM1(RS232)	COM3(RS232)
	Pin1	B-	Rx-		
	Pin2			RxD	
	Pin3			TxD	
	Pin4		Tx-		
	Pin5	GND			
	Pin6	A+	Rx+		
	Pin7				RxD
	Pin8				TxD
	Pin9		Tx+		

3.3 COM2 Port

COM2（Pin1~Pin5 from left to right）	Pin	COM2(RS485)	COM2(RS422)
	Pin1	A+	Rx+

COM2（Pin1~Pin5 from left to right）	Pin	COM2(RS485)	COM2(RS422)
	Pin2	B-	Rx-
	Pin3		GND
	Pin4		Tx+
	Pin5		Tx-

3.4 Ethernet Port

2 RJ45 Ports:Used for Ethernet communication with controllers or servers.



3.5 USB Type-A 3.0 Port

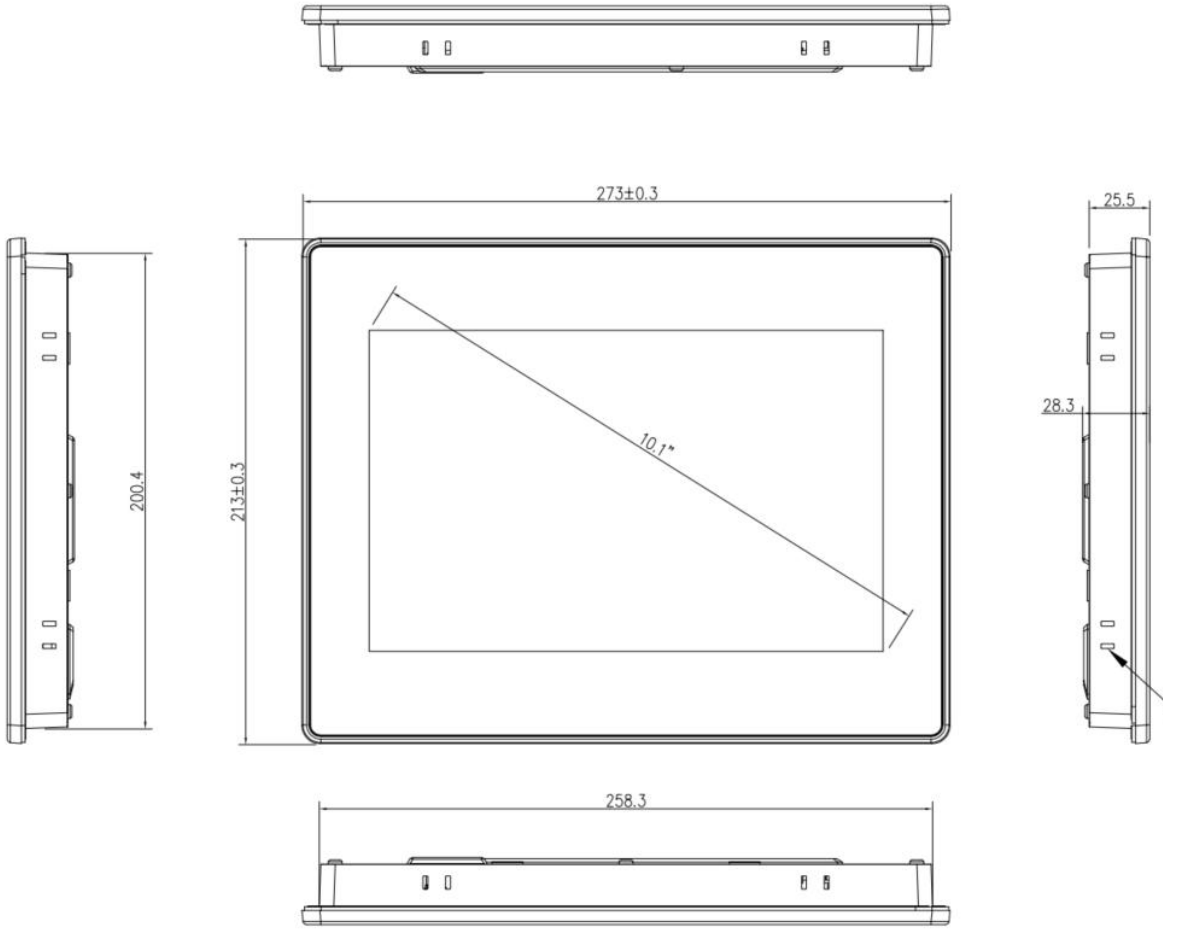
2 USB Type-A ports,can be used as USB Host Port or USB Slave Port.

- Used as USB Host Port: Connect to peripheral devices, such as flash drive or bar code scanner, etc.
- Used as USB Slave Port: Used for program downloading and debugging; Connect to USB peripherals



4 Dimension

Unit:mm



Embedded mounting clips (8 places in total)

Cutout dimensions of flush-mounting installation:260mm*202mm;

VESA installation:100mm*100mm