

FE6400WE



1 Product Overview

1.1 Product introduction

Flexem 6300 Series HMIs are an upgraded version of the 6000 Series IoT HMIs. It continues the characteristics of the 6000 series HMIs, including high-value, cost-effective, pluggable and expandable FLink IoT modules. It adopts a high-performance Cortex-A7 processor (main frequency is 1GHz, dual-core), providing a foundation for big data processing and efficient operation of the device.

In addition, the new HMI back cover and FLink structure design make FLink smaller in size, and FLink no longer protrudes above the the HMI back shell after installation, improving the aesthetics of the product and the ease of use of FLink.

FE6400WE is a product model of the 6300 Series HMIs that supports diverse Ports, including USB、Ethernet port and DB-9.

1.2 Product Appearance



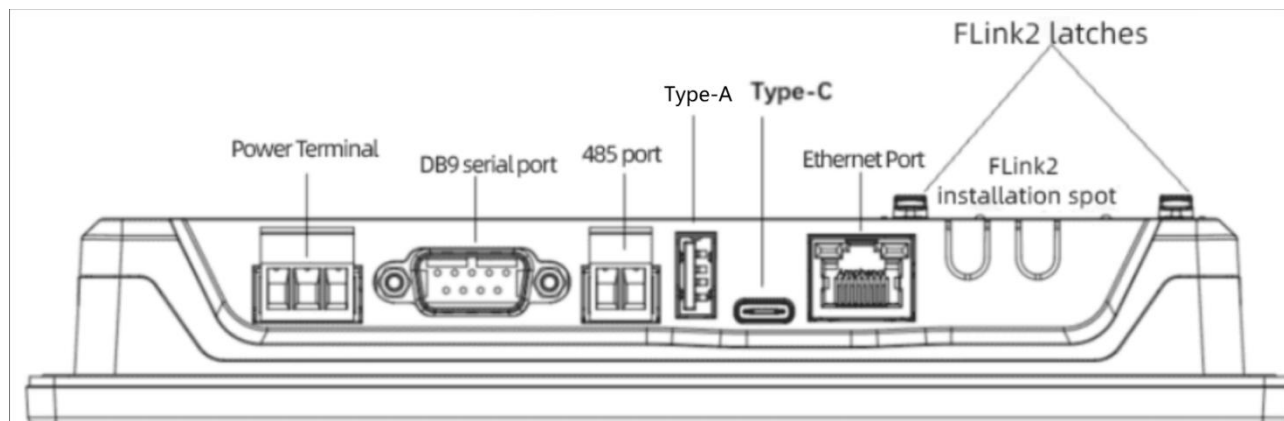
2 Specifications

Category	Item	Description
Hardware	Display	10.1" 16:9 TFT LCD
	Resolution	1024×600
	Colors	24-bit
	Brightness	400 cd/m ²
	Backlight	LED
	LCD Lifetime	50000 hours
	Touch Panel	4-wire industrial resistive touch panel
	CPU	Cortex-A7(main frequency is 1GHz,dual-core)
	Storage	256MB DDR3+256MB Flash
	RTC	Built-in
	Ethernet	1* 10M/100M self-adaptive RJ45 port
	SD Card	NA
	Bluetooth	NA
	USB Port	1*Type-C 2.0 port;1*USB Type-A 2.0port
Software feature	Program Download Method	USB Slave/U disk/Ethernet
	Serial Port	COM1:RS232/RS485/RS422 COM2: RS485 COM3:RS232
	LCD Viewing Angles (T/B/L/R)	85° /85° /85° /85°
	Network Access	Ethernet
	Network Band	NA
	VPN Transparent Transmission	Available
	Data Monitoring	300 points, supports timing or event-based upload
	Alarm Notification	100 points, support client push, SMS push, WeChat

Category	Item	Description
		official account push
	Historical Data	30 points, supports restoration resume downloads, 50k records per point in offline storage, and cloud storage retention for 60 days
	Edge Computing	20 points, Supports script programming
	Network Protocol	Supports over 400 industrial device protocols
	Management and Maintenance	Supports remote firmware upgrade; supports import and export of configuration file
Electrical feature	Rated Power	<10W
	Rated Voltage	DC24V, operational range: DC 9V~28V
	Power Protection	Lightning surge protection
	Power Interruption Tolerance	<5ms
	CE&RoHS	EN61000-6-2:2019 and EN61000-6-4:2019 standards certified; RoHS certified; lightning surge $\pm 1\text{kV}$; group pulse $\pm 2\text{kV}$; electrostatic contact 4kV, air discharge 8kV
Environmental requirement	Operating Temperature	0~50℃
	Storage Temperature	-20~60℃
	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 air cooling
Mechanical feature	Protection Level	Front: IP65 (with flush panel cabinet installation), Rear: IP20
	Enclosure Material	Engineering plastic
	Cutout Dimensions	260mm×202mm

Category	Item	Description
	Dimensions	273mm×213mm×36mm
	Weight	About 920 g

3 Wiring Definition



3.1 Power Terminal

Power Terminal(Pin 1~3 from left to right)	Pin	Description
	Pin1	FG
	Pin2	0V
	Pin3	DC 24V

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	GND
	Pin6	A+	Rx+		
	Pin7				RxD
	Pin8				TxD
	Pin9		Tx+		

3.3 RS485 Serial Port

RS485 Terminals (Pin 1~2 from left to right)	Pin	Description
	Pin1	A+ (COM2 RS485)
	Pin2	B- (COM2 RS485)

3.4 Ethernet Port

RJ45 port for Ethernet communication with the controller or server.



3.5 USB Type-C 2.0 Port

USB Slave port, Used for program download.



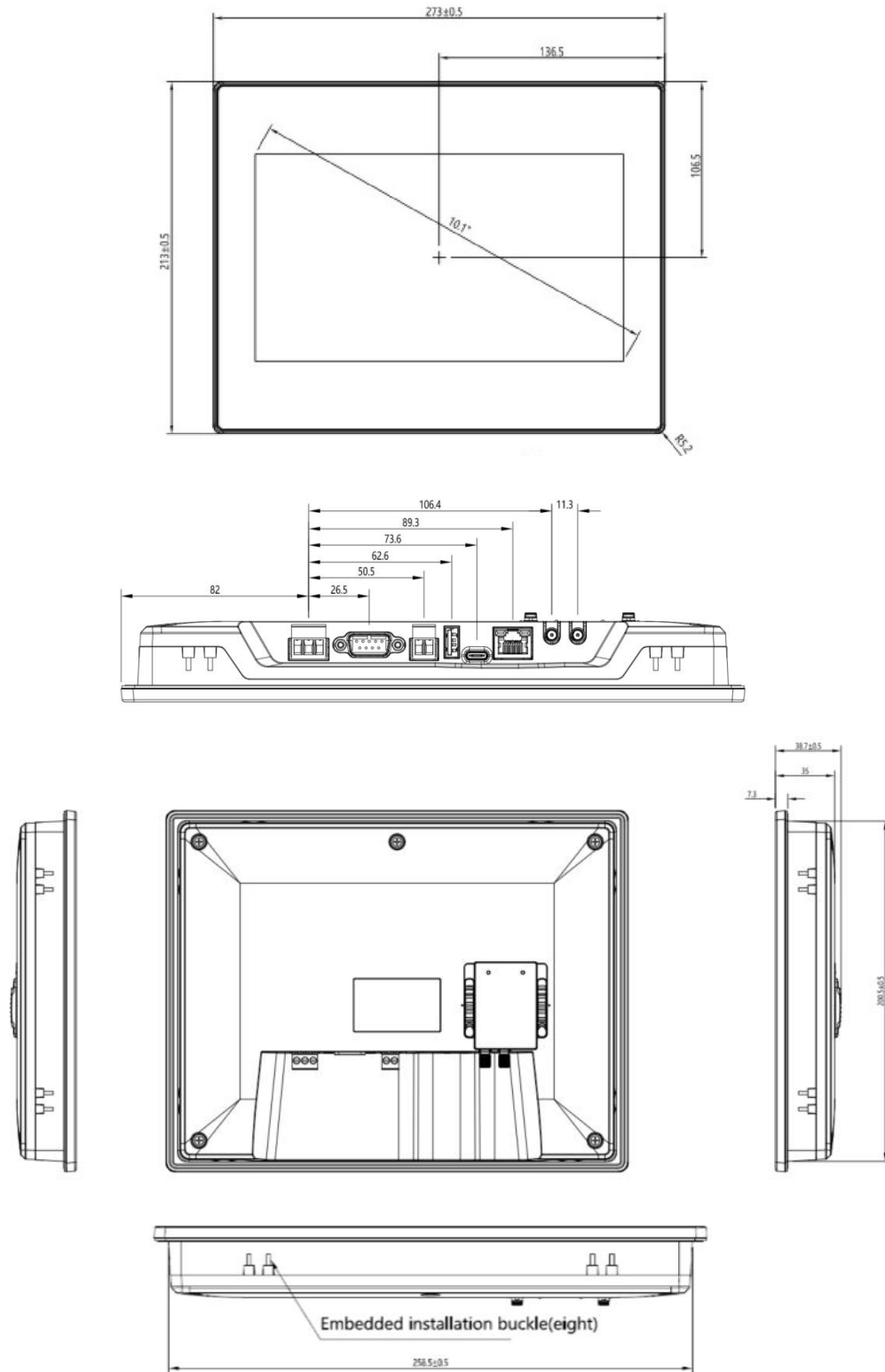
3.6 USB Type-A 2.0 Port

USB Host port, Used for connecting peripheral devices, such as Flash drive or bar code scanner.



4 Dimension

Unit: mm



Flush-mounted installation cutout dimensions: $260\text{mm} \times 202\text{mm}$ ($+1.5\text{mm}/-0.0\text{mm}$)