

# 1 Product Overview

## 1.1 Product introduction

- ◆ 2 serial ports support RS232/485/422
- ◆ 1 USB port supports storage and download via flash drive
- ◆ Able to download programs while powered via USB
- ◆ Plastic enclosure, high adaptability and reliability
- ◆ Professional exterior design, high aesthetic appeal, and practical downward cable outlet method
- ◆ FStudio configuration software with an extensive library and powerful features

## 1.2 Product Appearance

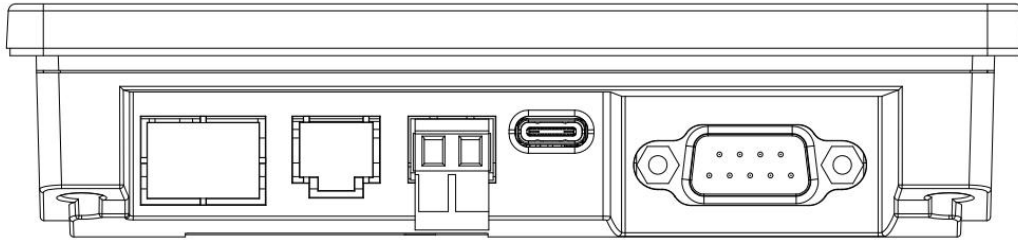


## 2 Specifications

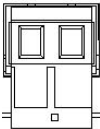
Category	Item	Description
Hardware	Display	4.3" 16:9 TFT LCD
	Resolution	480×272
	Colors	16-bit
	Brightness	360 cd/m <sup>2</sup>
	Backlight	LED
	LCD Lifetime	50000 hours
	Touch Panel	4-wire industrial resistive touch panel
	CPU	Cortex-A7(main frequency is 1GHz,dual-core)
	Storage	64MB DDR2 + 128MB Flash
	RTC	Built-in
	Ethernet	NA
	SD Card	NA
	Bluetooth	NA
	USB Port	1*USB Type-C 2.0 OTG port
	Program Download Method	USB Slave/U disk
Serial Port	COM1: RS232/RS485/RS422 COM3: RS232	
LCD Viewing Angles (T/B/L/R)	80° /80° /80° /80°	
Electrical feature	Rated Power	< 5W
	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 ± 1kV;group pulse ±

Category	Item	Description
		2kV;electrostatic contact 4kV,air discharge 8kV
Environmental requirements	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	132mm×80mm
	Dimensions	138mm×86mm×32mm
	Weight	About 300g

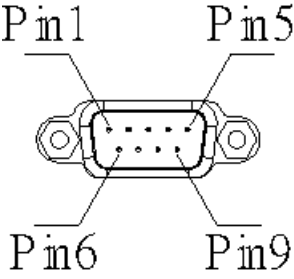
# 3 Wiring Definition



## 3.1 Power Terminal

Power Terminal (Pin 1~2 from left to right)	Pin	Description
	Pin1	0V
	Pin2	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 USB Type-A 2.0 OTG Port

USB Slave port, Used for program download.

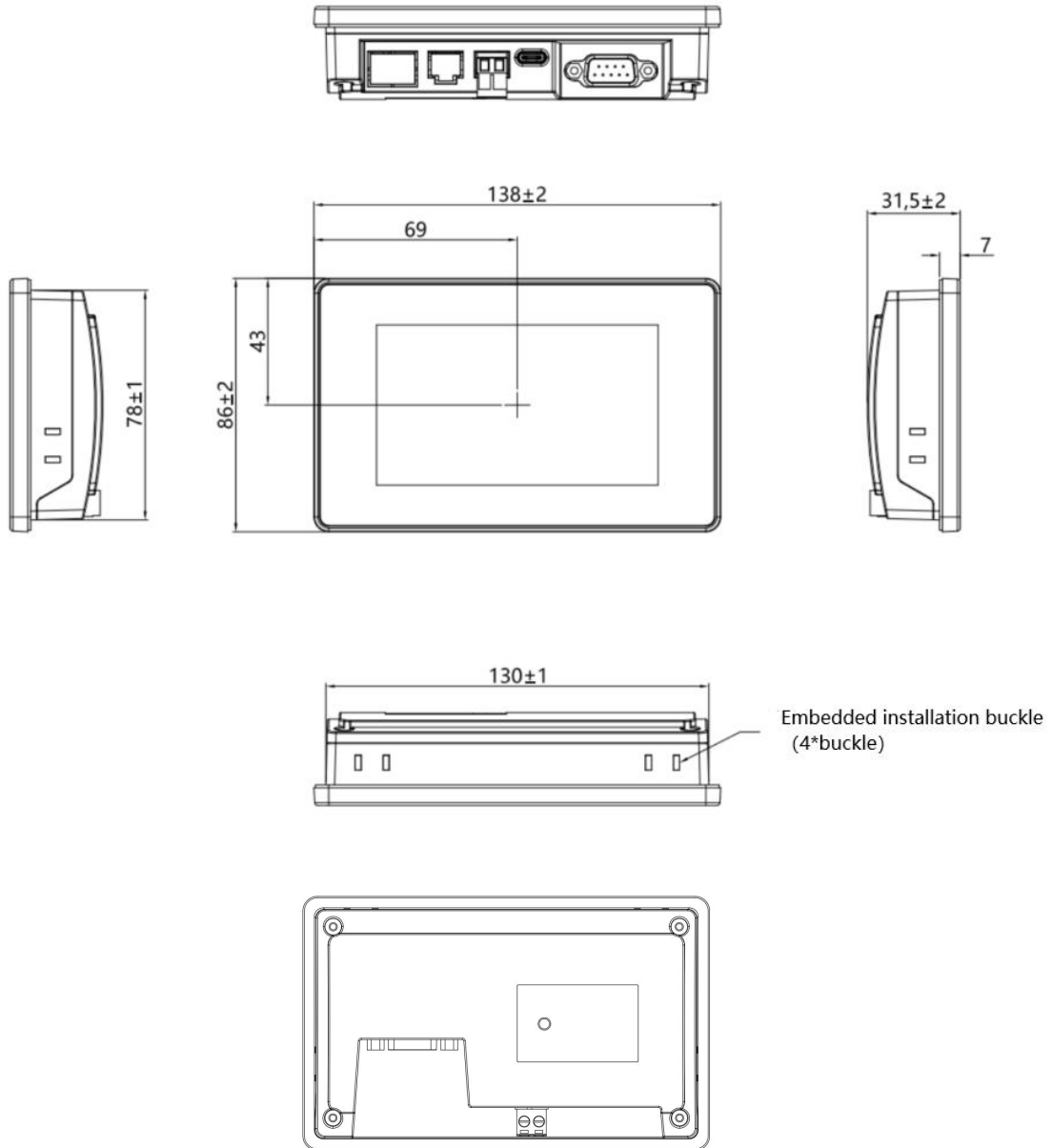
USB Host port, Used for connecting peripheral devices, such as Flash drive or bar code scanner

(needs equipping Type-C and USB Type-A conversion line).



# 4 Dimension

Unit: mm



Flush-mounted installation cutout dimensions: 132\*80mm