

FE6370CE

规格书（Datasheet）

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官方网站（Website）： www.flexem.com

1 产品概述

1.1 产品简介

6300 系列 HMI 是 6000 系列 HMI 升级版的物联网人机界面，延续了 6000 系列 HMI 高颜值、高性价比，可插拔扩展 FLink 物联网模块的特点。采用了更高性能的 Cortex-A7 处理器（主频 1GHz，双核）和更大容量的存储器，为设备大数据处理和高效运行提供基础。此外全新的 HMI 后盖和 FLink 结构设计，让 FLink 体积更小，FLink 安装后不再凸出于 HMI 的后壳，提升产品美观度和 FLink 的易用性。

FE6370CE 是 6300 系列 HMI 的一个产品型号，支持丰富的接口，包括 USB 接口、以太网口、DB-9 接口等。

1.2 产品外观

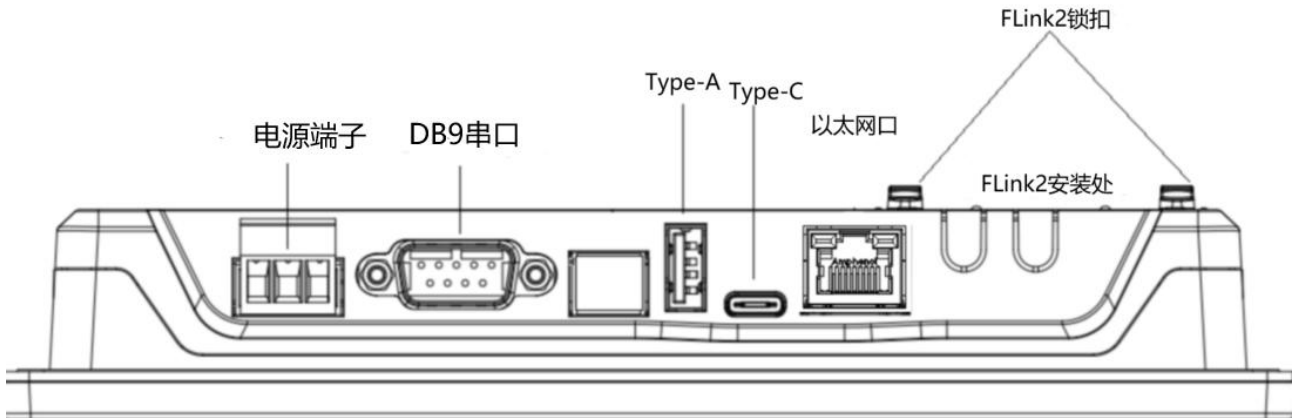


2 产品规格


| 分类 | 项目 | 参数 |
|------|---------------------|---|
| 硬件参数 | 显示屏 | 7 英寸, 16:9 TFT LCD 屏 |
| | 分辨率 | 800×480 |
| | 色彩 | 24 位 |
| | 亮度 | 350 cd/m ² |
| | 背光 | LED |
| | LCD 寿命 | 50000 小时 |
| | 触摸屏 | 4 线工业电阻触摸屏 |
| | CPU | Cortex-A7 (主频 1GHz, 双核) |
| | 存储器 | 256MB DDR3+4GB eMMC |
| | RTC | 实时时钟内置 |
| | 以太网接口 | 1 个 10M/100M 自适应 RJ-45 接口 |
| | SD 卡 | 不支持 |
| | 蓝牙 | 不支持 |
| | USB 端口 | 1 个 USB Type-C 2.0 接口, 1 个 USB Type-A 2.0 接口 |
| | 程序下载方式 | USB Type-C 2.0/USB Type-A 2.0/以太网口 |
| | 串行通讯端口 | COM1:RS232/RS485/RS422 COM3:RS232 |
| | 液晶可视角度 (T/B/L/R) | 50° /70° /70° /70° |
| 电气规格 | 额定功率 | <10W |
| | 额定电压 | DC24V, 可工作范围 DC 9V~28V |
| | 电源保护 | 具备雷击浪涌保护 |
| | 允许失电 | <5mS |
| | CE&RoHS | 符合 EN61000-6-2:2005, EN61000-6-4:2007 标准;雷击浪涌 ±1kV, 群脉冲±2kV; 静电接触 4kV, 空气放电 8kV;符合 RoHS |

| 分类 | 项目 | 参数 |
|------|------|----------------------------------|
| 环境要求 | 工作温度 | 0~50℃ |
| | 存储温度 | -20~60℃ |
| | 防紫外线 | 禁止在强紫外线环境下工作（例如阳光直射） |
| | 环境湿度 | 10%~90%RH（无冷凝） |
| | 抗震性 | 10~25Hz（X、Y、Z 方向 2G/30 分钟） |
| | 冷却方式 | 自然风冷 |
| 机械特性 | 防护等级 | 前面板符合 IP65（配合平整盘柜安装），机身后壳符合 IP20 |
| | 机械结构 | 工程塑料 |
| | 开孔尺寸 | 190mm×136mm（+1.5mm/-0.0mm） |
| | 整机尺寸 | 204mm×145mm×36.6mm（公差±0.3mm） |
| | 整机重量 | 约 476g |

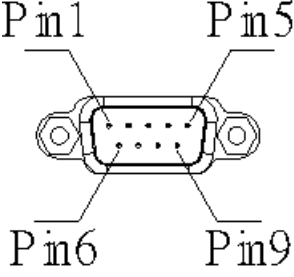
3 接线定义



3.1 电源端子

| 电源端子 (Pin1~Pin3 从左至右) | 引脚 | 功能 |
|--|------|--------|
|  | Pin1 | FG |
| | Pin2 | 0V |
| | Pin3 | DC 24V |

3.2 DB9 串口

| | 引脚 | 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 以太网网口

RJ45 接口，用于与支持以太网协议的设备（如 PLC、服务器等）进行通讯。



3.4 USB Type-C 2.0 接口

USB Slave 接口，用于下载程序。



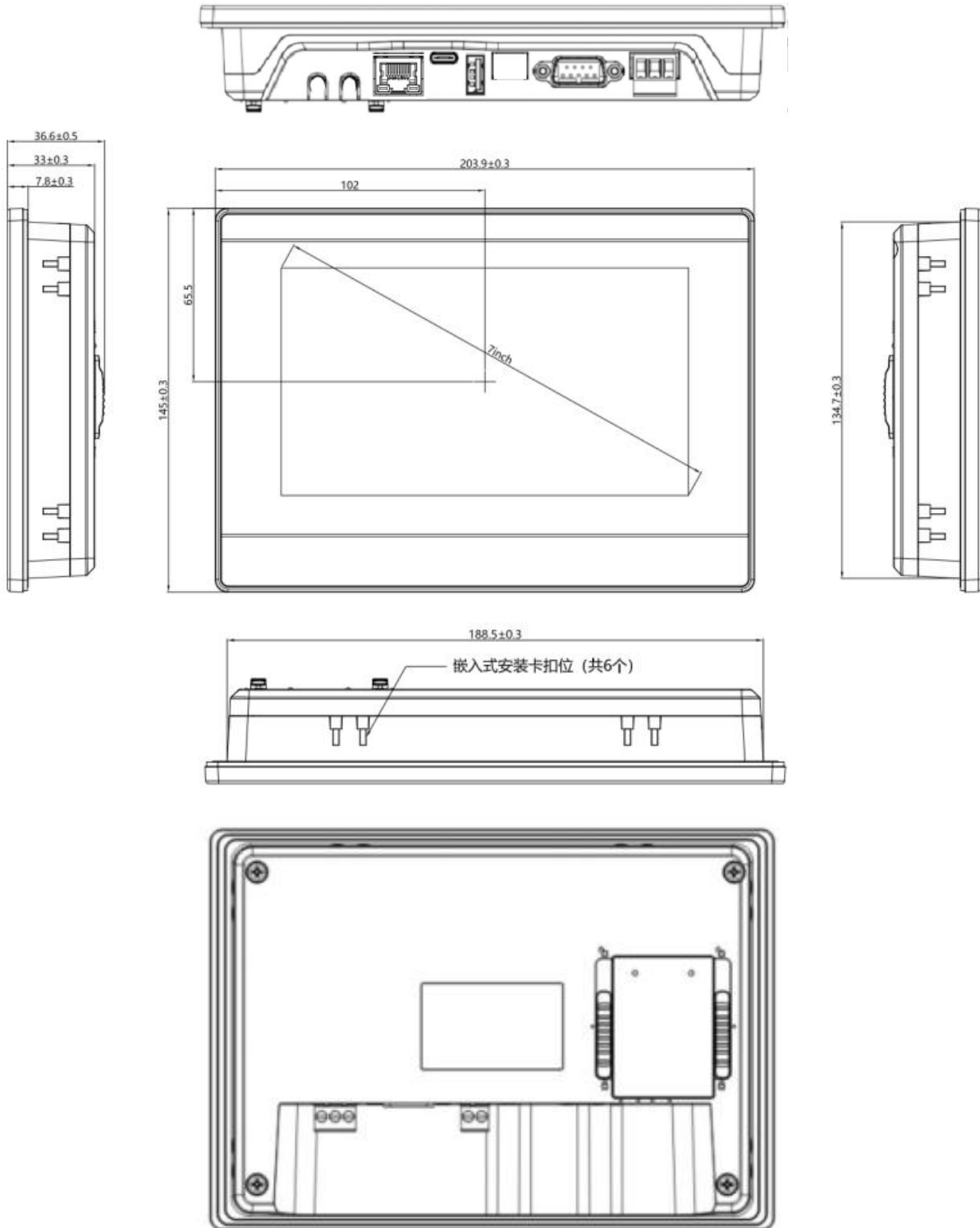
3.5 USB Type-A 2.0 接口

USB Host 接口，用于连接 U 盘、扫码枪等外设。



4 产品尺寸

尺寸单位: mm



嵌入式安装开孔尺寸: 190mm*136mm (+1.5mm/-0.0mm)

5 Product Overview

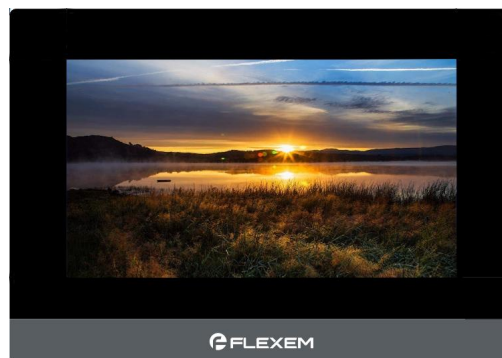
5.1 Product introduction

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) and larger-capacity memory, 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.

FE6370CE is a product model of the 6300 Series HMI that supports diverse ports, including USB 、 Ethernet port and DB-9.

5.2 Product Appearance

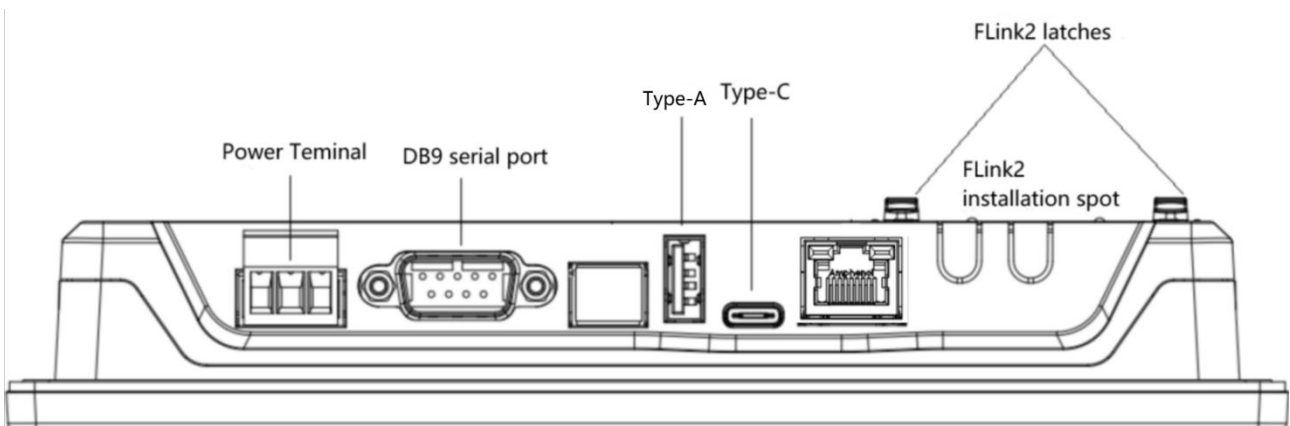


6 Specifications


| Category | Item | Description |
|------------------------------|--------------------------------------|---|
| Hardware | Display | 7" 16:9 TFT LCD |
| | Resolution | 800×480 |
| | Colors | 24-bit |
| | Brightness | 350 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+4GB eMMC |
| | RTC | Built-in |
| | Ethernet | 1* 10M/100M self-adaptive RJ45 port |
| | SD Card | NA |
| | Bluetooth | NA |
| | USB Port | 1*USB Type-C 2.0 port;1*USB Type-A 2.0 port |
| | Program Download Method | USB Slave/USB Host/Ethernet |
| Serial Port | COM1:RS232/RS485/RS422 COM3:RS232 | |
| LCD Viewing Angles (T/B/L/R) | 50° /70° /70° /70° | |
| Electrical feature | Rated Power | <10W |
| | Rated Voltage | DC24V,operational range:DC 9V~28V |
| | Power Protection | Lightning surge protection |
| | Power Interruption Tolerance | <5ms |
| | CE&RoHS | EN61000-6-2:2005 and EN61000-6-4:2007 standards certified;RoHS certified;lightning surge±1kV; |

| Category | Item | Description |
|---------------------------|------------------------|---|
| | | group pulse ± 2 kV;electrostatic contact 4kV,air discharge 8kV |
| Environmental requirement | Operating Temperature | 0~50 $^{\circ}$ C |
| | Storage Temperature | -20~60 $^{\circ}$ C |
| | 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 | 190mm \times 136mm (+1.5mm/-0.0mm) |
| | Dimensions | 204mm \times 145mm \times 36.6mm (± 0.3 mm) |
| | Weight | About 476g |

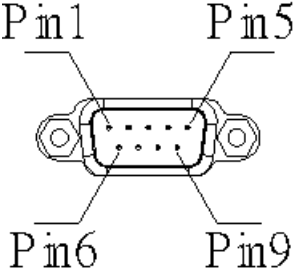
7 Wiring Definition



7.1 Power Terminal

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

7.2 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+ | |

7.3 Ethernet Port

RJ45 port for Ethernet communication with the controller or server.



7.4 USB Type-C 2.0 Port

USB Slave port, Used for program download.



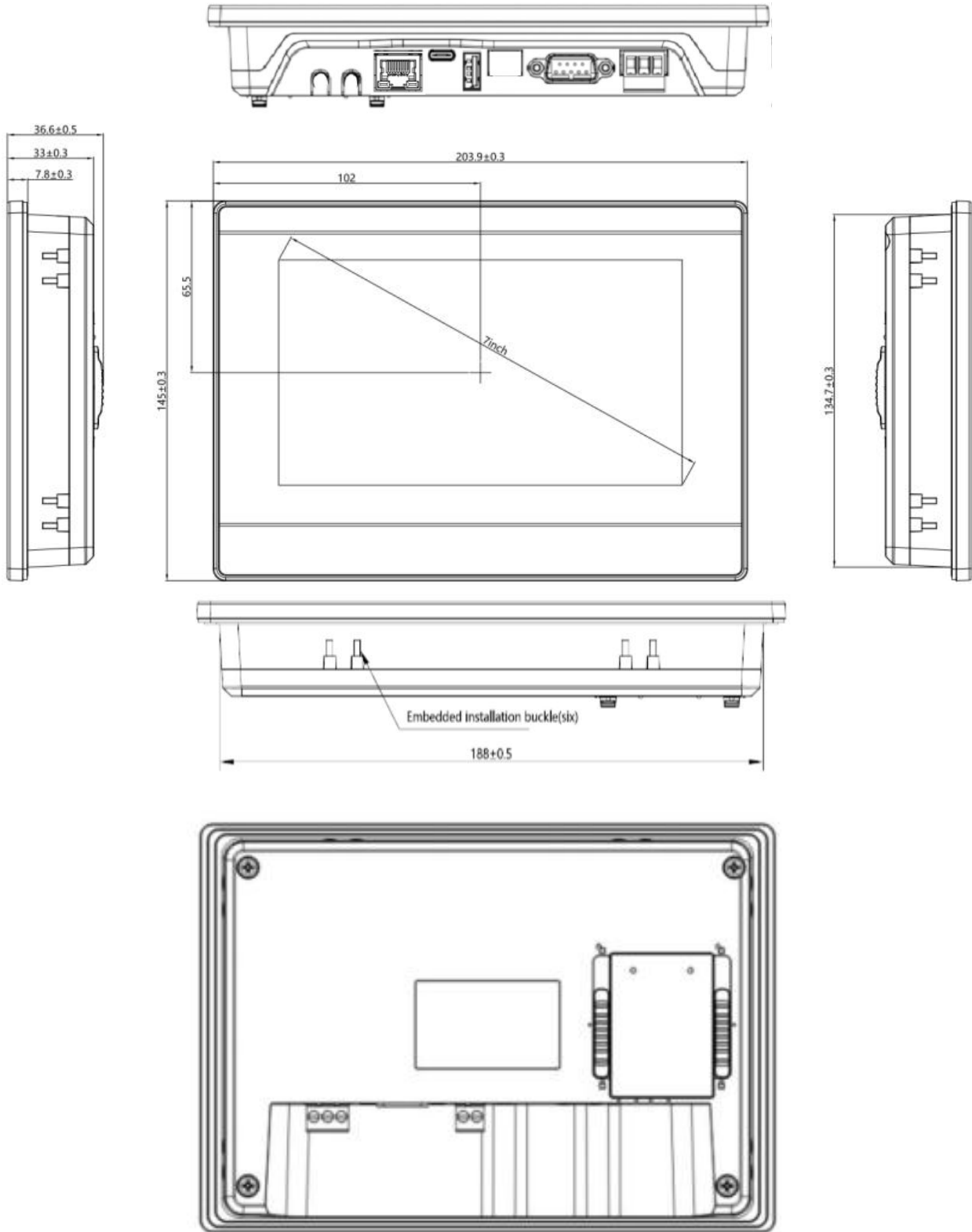
7.5 USB Type-A 2.0 Port

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



8 Dimension

Unit: mm



Flush-mounted installation cutout dimensions: 190*136(+1.5mm/-0.0mm)