# Flexem IoT HMI 6300 Series

# Model: FE6370WE

## Product Overview

Flexem 6300 Series is an upgraded version of the 6000 Series IoT HMI. In addition to continuing the characteristics of the 6000 series of high-value, cost-effective, pluggable and expandable FLink IoT modules, the upgrade adopts a high-performance 1GHz, 2-core Cortex-A7 processor 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 height of the HMI back shell after installation, improving the aesthetics of the product and the ease of use of FLink.
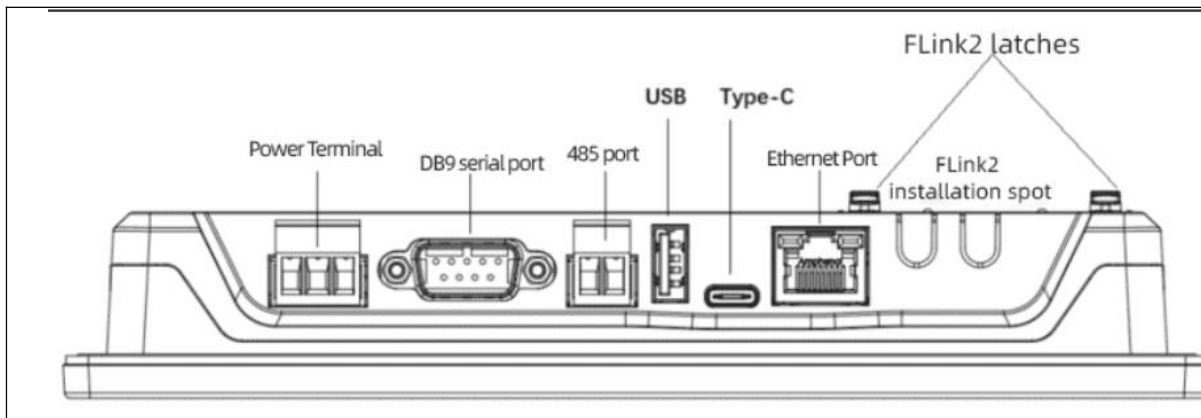
## Product Appearance

## Product Specifications

| | | |
|---|---|---|
| Hardware | Display | 7" 16:9 TFT LCD |
| | Resolution | 1024×600 |
| | Colors | 24-bit |
| | Brightness | 350 cd/m² |
| | Backlight | LED |
| | LCD Lifetime | 50000 hours |
| | Touch Panel | 4-wire industrial resistive touchscreen |
| | LCD Viewing Angles (T/B/L/R) | 85'/85'/85'/85' |
| | CPU | 1GHz,2-coreCortex-A7 |
| | Storage | 256MB DDR3 + 4GB EMMC |
| | RTC | Built-in |
| | Ethernet | 1* 10M/100M self-adaptive |
| | SD Card | N/A |
| | USB Port | 1* Type-C OTG port; 1* USB Type A port |
| | Program Download Method | USB slave / Flash drive/Ethernet |
| | Serial Port | COM1: RS232/RS485/RS422<br>COM2: RS485<br>COM3: RS232 |
| Electrical | 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;<br>group pulse ± 2kV;electrostatic contact 4kV, air discharge 8kV |
| Environmental | 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 |
| Mecha | Protection Level | Front: IP65 (with flush panel cabinet installation), Rear: IP20 |

| nical | Enclosure Material | Engineering plastic |
|---|---|---|
| | Cutout Dimensions | 190mm×136mm （+1.5mm/-0.0mm） |
| | Dimensions | 204mm×145mm×36.6mm （±0.3mm） |
| | Weight | About 476g |

## Wiring Definition



**Power Terminal (Pin 1~3 from left to right)**

| | Pin1 | FG |
|---|---|---|
| | Pin2 | 0V |
| | Pin3 | DC24V |

**DB9 Serial Terminal**

| | Pin | COM1 | COM3 |
|---|---|---|---|
| | Pin1 | Rx- (B) (RS422/485-) | |
| | Pin2 | RxD (RS232) | |
| | Pin3 | TxD (RS232) | |
| | Pin4 | Tx- (RS422) | |
| | Pin5 | GND | |
| | Pin6 | Rx+ (A) (RS422/485+) | |
| | Pin7 | | RxD (RS232) |
| | Pin8 | | TxD (RS232) |
| | Pin9 | Tx+ (RS422) | |

**485 Terminals (Pin 1~2 from left to right)**

| | Pin1 | A+ (COM2 RS485) |
|---|---|---|
| | Pin2 | B- (COM2 RS485) |

**Ethernet Port**

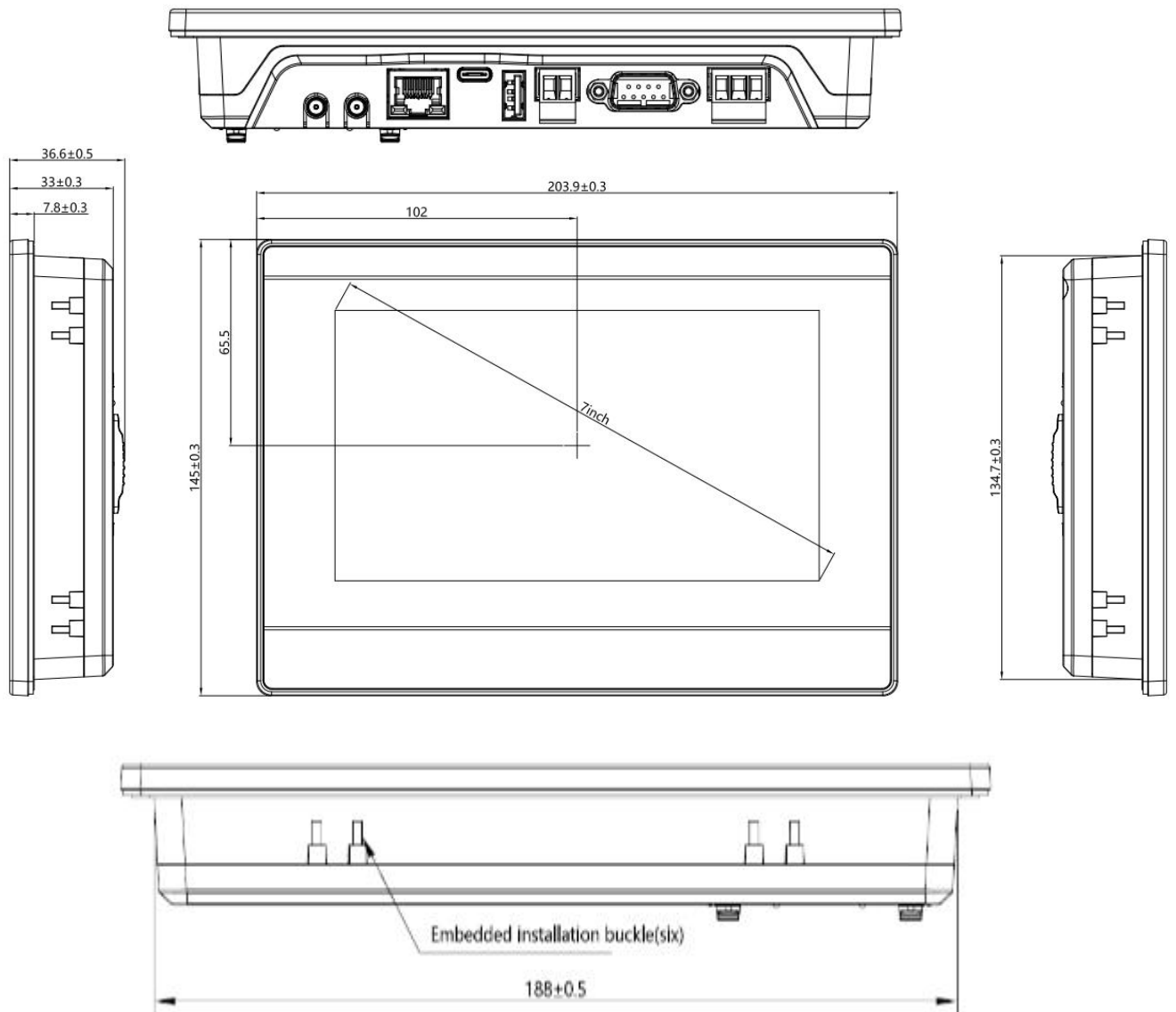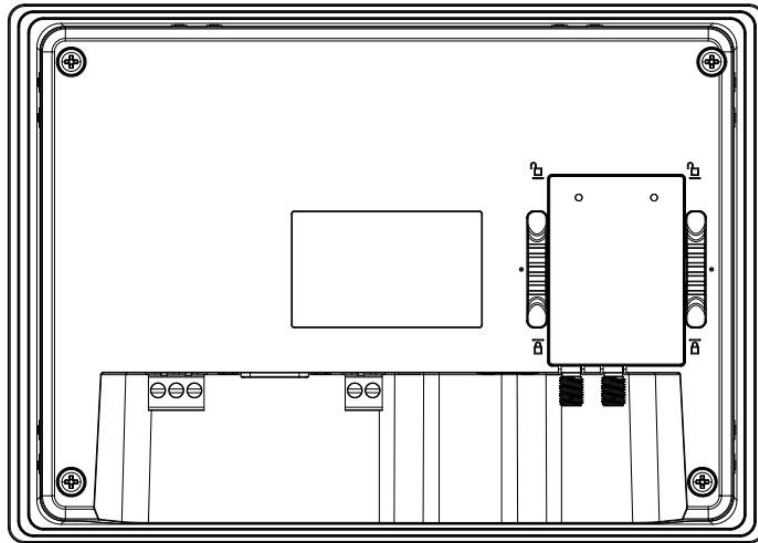| | RJ45 | Used for Ethernet configuration with controllers or connection with server |
|---|---|---|

**Type-C OTG Port**

| | Type-C | Slave port:Used for program download and |
|---|---|---|

| | | debugging |
|---|---|---|
| | | Host port:Used for peripheral devices,such as flash drive or bar code scanner (Type-C to Type-A USB conversion cable required) |
| USB Type A   Port | | |
| | Type A | Host port:Used for peripheral devices,such as Flash drive or bar code scanner |

## Dimension drawings

### FE6370WE



Embedded installation buckle(six)

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