Flexem IoT HMI 6000 Series

Model: FE6070WE

Product Overview

Flexem 6000 series is the new generation of IoT HMI, continuing the high cost-performance ratio of Flexem 4000 series touchscreen, equipped with industrial ABS plastic enclosure that offers low cost and high reliability. This model adopts a brand-new model design featuring more practical downward sockets, and a redesigned front panel with improved appearance. Models with higher resolutions are also available.

By configuring this product with FLink IoT module, it can be upgraded to have IoT functionality and access full suite of services offered by Flexem industrial IoT cloud platform.
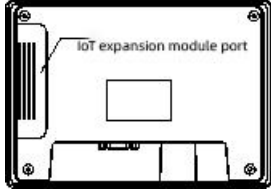
Product Appearance

Product Specifications

Hardware Version:		Version: 2.0	Version: 3.x
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	600MHz ARM Cortex-A8	4-core 1.2GHz ARM Cortex-A7
	Storage	128M DDR3 + 128M Flash	256MB DDR3 + 4GB EMMC
	RTC	Built-in	
	Ethernet	1* 10M/100M self-adaptive	
	SD Card	Available	
	USB Port	1* USB slave 2.0 port, 1* USB host 2.0 port	
	Program Download Method	USB slave / Flash drive	
	Serial Port	COM1: RS232/RS485/RS422 COM2: RS485 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; 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 cooling	
Mecha	Protection Level	Front: IP65 (with flush panel cabinet installation), Rear: IP20	

nical	Enclosure Material	Engineering plastic
	Cutout Dimensions	192mm×138mm
	Dimensions	204mm×145mm×33.8mm
	Weight	About 560g

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

USB Host

	USB Type-A	Used for peripheral devices, such as flash drive or bar code scanner

USB Slave

	Micro USB	Used for program download and debugging

FLink Expansion Module

	Expansion Module Slot	Supported module: FLink/Link-4G(-A)/FLink-4G(-C)/ FLink-WiFi(-A)
IoT expansion module port		

Dimension drawings

FE6070WE
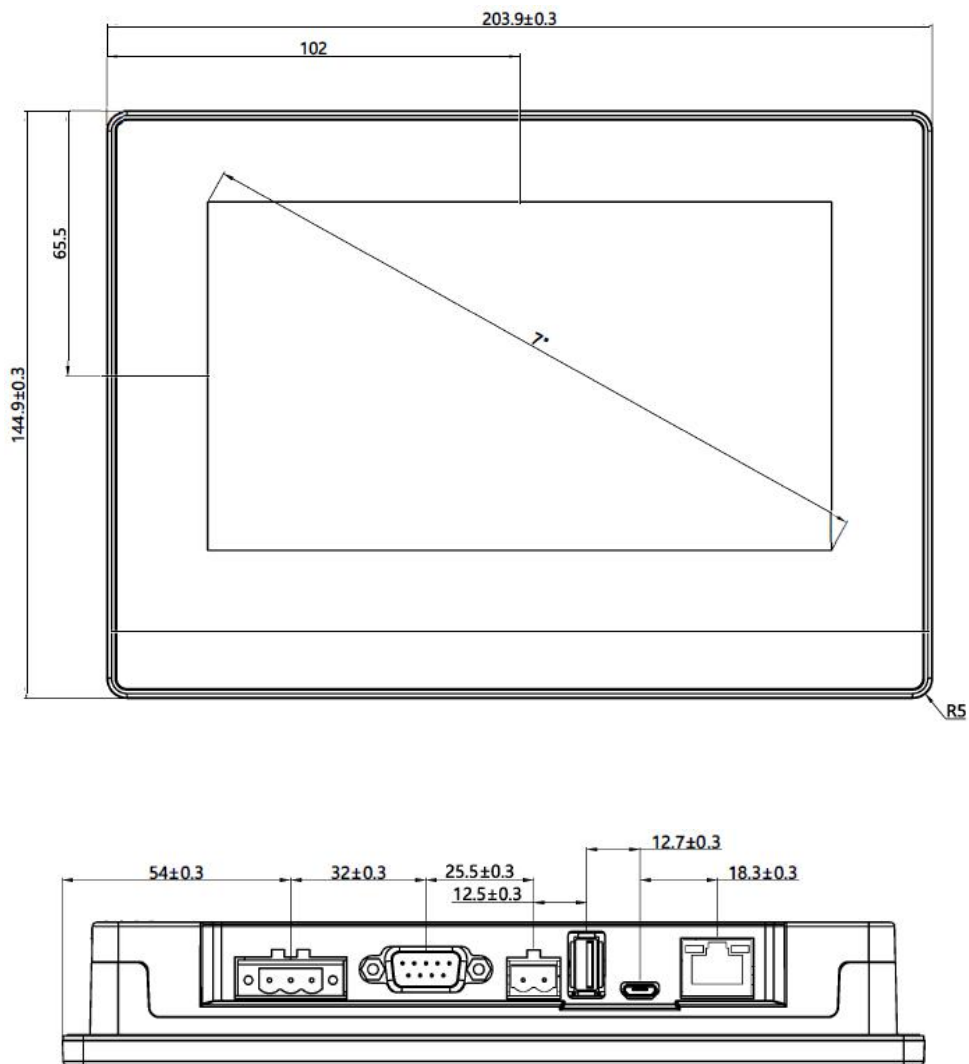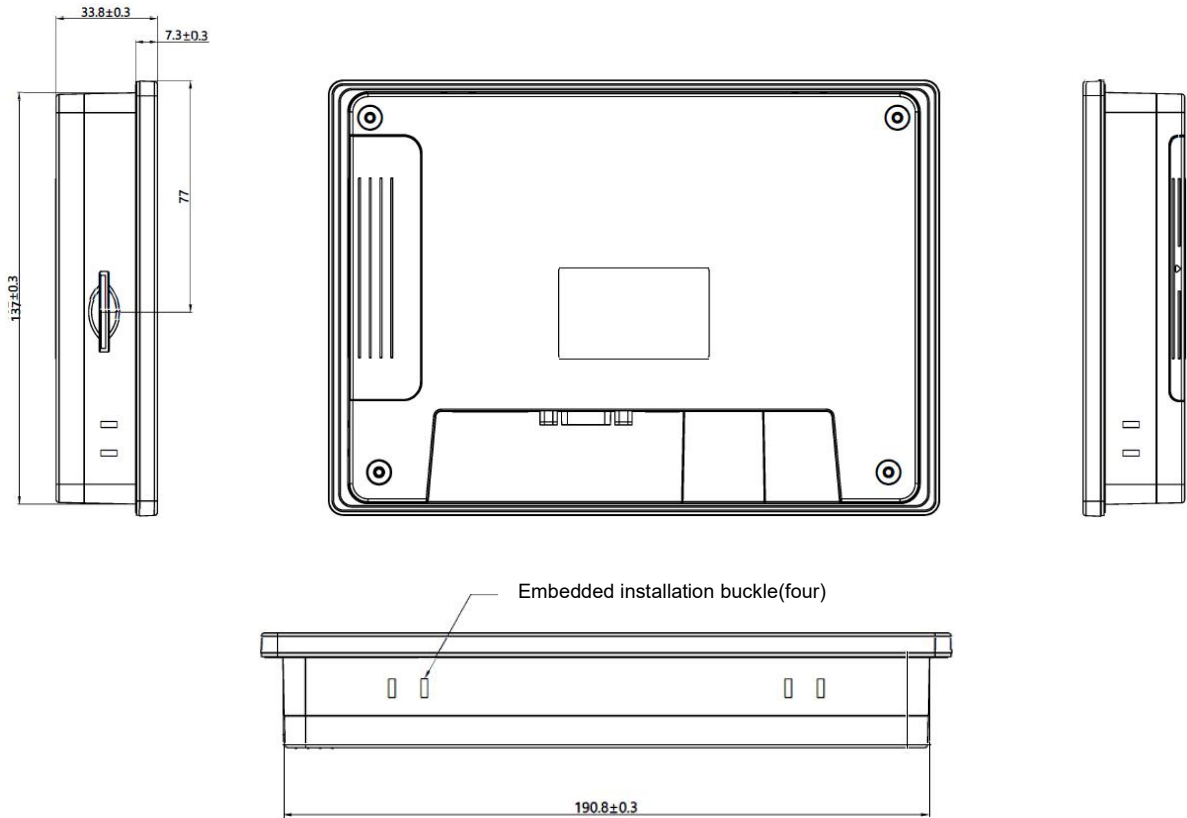
Flush-mounted installation cutout dimensions:192*138 (+1.5mm/-0.0mm)

FE6070WE+FLink/FWay