

FLEXEM FE9100M SPECIFICATION

Model: FE9100M

Products Overview

Flexem industrial touch panel 9000 series, a new generation of human-machine interface. Continues 6000 series IOT HMI function, low cost, aluminum alloy shell; motherboard three anti-painting treatment, adapt to harsh environments. New molding, with more practical backward outlet; redesigned appearance, more beautiful; higher resolution models available.

With the optional FLink IoT module, it can be immediately upgraded to IoT HMI and enjoy the complete service of Flexem Industrial IoT Cloud Platform. Upgraded to dual network ports, it can connect Flexem IoT and network PLC at the same time.

Products Appearance

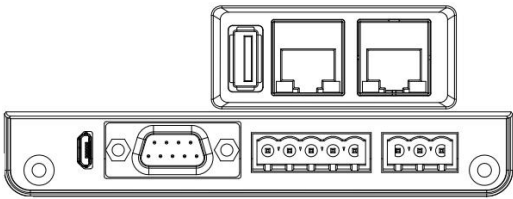
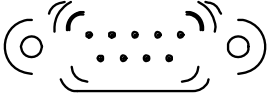
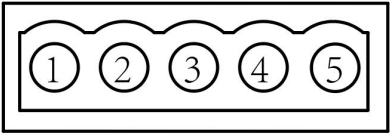


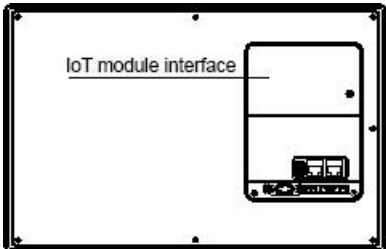
Specification

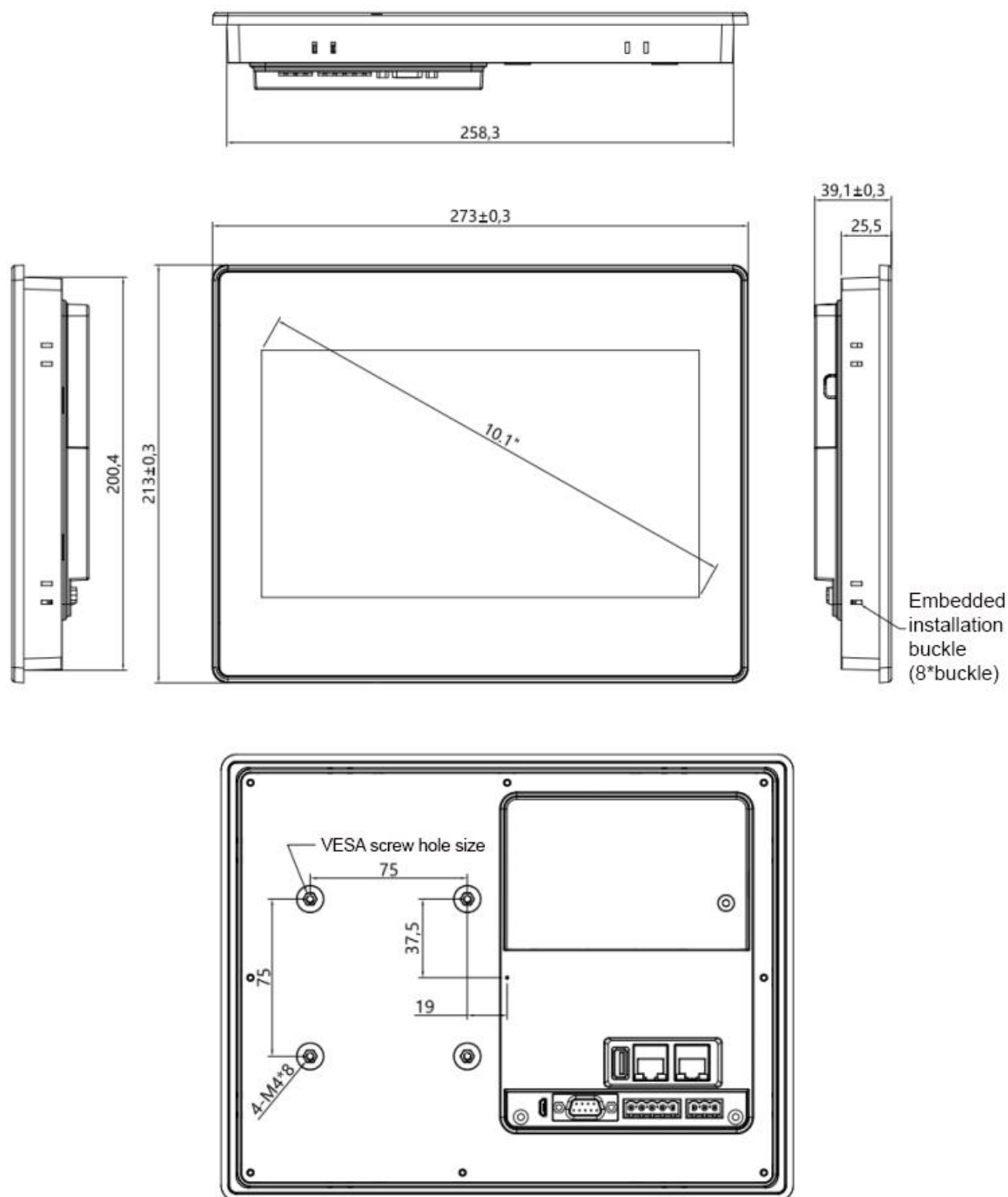
Hardware Parameters	Display	10.1" 16:9 TFT LCD Screen
	LCD View Angle (T/B/L/R)	85'/85'/85'/85'
	Resolution	1024×600
	Color	16-bit
	Brightness	400 cd/m ²
	Backlight	LED
	LCD Life	50000 Hours
	Touch Screen	4-line Industrial Resistive Touch Screen
	CPU	4-core 1.2G Cortex-A53 Processor
	Memory	8GB Flash+1GB DDR
	RTC	Built-in
	SD Card	Micro SD (TF) Card
	Ethernet	2-line 10M/100M adaptive
	USB port	1 USB Slave 2.0 port, 1 USB Host 2.0 port
	Program Downloading	USB Slave/U-disc /Ethernet
	Serial Communication Ports	COM1:RS232/RS485/RS422; COM2:RS485/RS422 COM3:RS232
Electric Specifications	Rated Power	< 10W
	Rated Voltage	DC24V,working range DC 9V~28V
	Power Protection	Isolated power adapter with lightning surge protection.
	Allowable power-off time	< 5mS
	Certification	CE: Comply with EN61000-6-2:2005, EN61000-6-4:2007 standards RoHS: Comply with RoHS EMC: Lightning surge±1KV, group pulse±2KV Electrostatic contact 4KV, air discharge:8KV
Environment Specifications	Working Temperature	-10~60°C
	Storage Temperature	-20~70°C
	UV-Anti	It prohibits working under strong ultra-violet radiation environment, such as direct sunshine.
	Environment Humidity	10~90%RH(non-condensing)
	Anti-vibration	10~25Hz (X/Y/Z direction 2G/30 minutes)

	Cooling	Natural Cooling
Mechanic Parameters	Installation	Embedded Installation/VESA Installation(75mm*75mm)
	Protection	Front panel: comply to IP65 (based on embedded installation); Back cover: comply to IP20
	Mechanical Structure	Aluminum alloy housing
	Cutout Size	260mm×202mm
	Dimension	274mm×214mm×39mm
	Weight	About 1450g

Wiring Definition

		
Power Terminals (Pin1~3 from left to Right)		
	Pin1	DC24V
	Pin2	GND
	Pin3	FG
DB9serial port terminal(COM1/COM3)		
Pin1 Pin5  Pin6 Pin9	Pin1	Rx-(B)
	Pin2	RxD (COM1 RS232)
	Pin3	TxD (COM1 RS232)
	Pin4	Tx-
	Pin5	GND
	Pin6	Rx+(A)
	Pin7	RxD (COM3 RS232)
	Pin8	TxD (COM3 RS232)
	Pin9	Tx+
COM2(Pin1~5 from left to Right)		
	Pin1	Rx+(A)
	Pin2	Rx-(B)
	Pin3	GND
	Pin4	Tx+
	Pin5	Tx-
USB Host		
	USB Type A	Used for connecting U-disc and bar code scanner etc.
USB Slave		
	Micro USB	Used for project downloading and debugging.
Ethernet port		
	RJ45	Used for setting Ethernet with controllers or used for connecting server.
FLink Expansion Module		

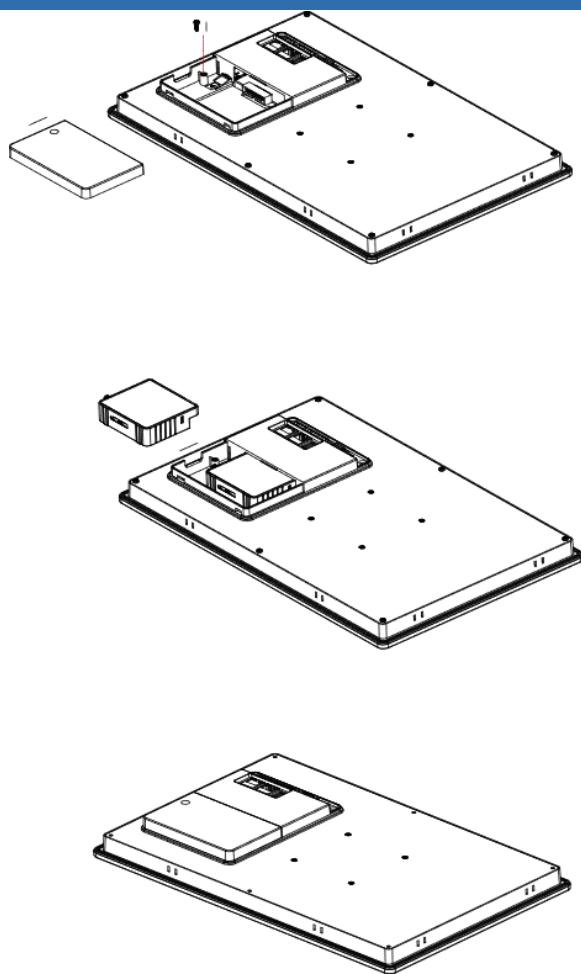
 IoT module interface	Expansion Module Slot	Module supported: FLink , FLink-2G-A , FLink-4G-A , FLink-4G-C, FLink-WiFi-A
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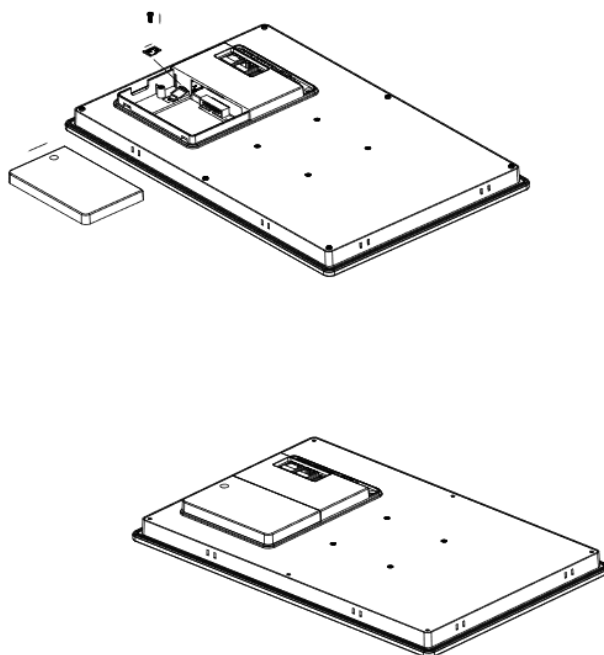
Embedded installation cutout size: 260mm×202mm

VESA installation: 75mm*75mm

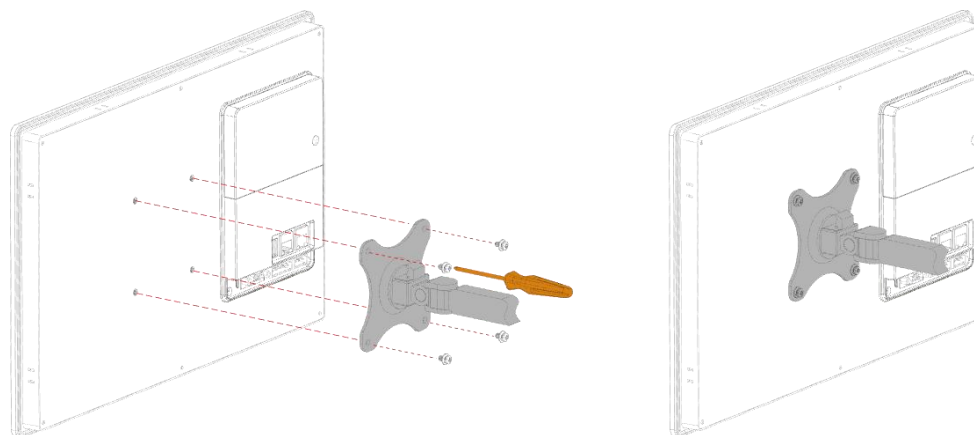
FLink Installation Diagram



TF Card Installation Diagram



VESA Installation Diagram



Screw PM4*8 (without hanger)