

SMB MAT-HMI-R9100-WE SPECIFICATIONS

Model: MAT-HMI-R9100-WE

Products Overview

SMB industrial touch screen, a new generation HMI, it extends SMB touch screen IIOT HMI function, industrial ABS economic frame, lost cost and high reliability.

Fully new module, using more practical way, redesign front and higher color with higher resolution HMI.

Through selecting FBox IOT module to update to IOT HMI directly to enjoy complete SMB IOT cloud service.

Products Outlook



Products Specifications

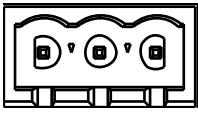
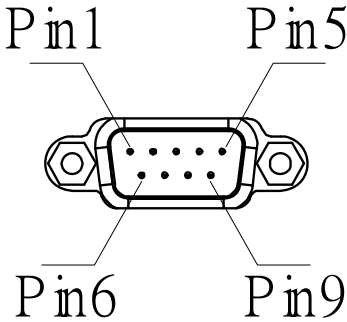
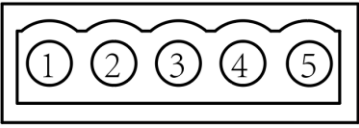
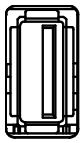
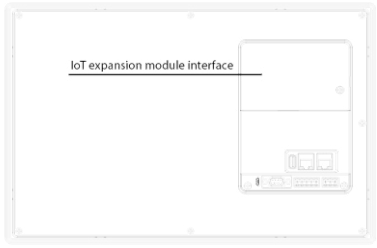


Hardware Parameters	LCD	10.1" 16:9 TFT LCD touch Screen
	LCD Viewing Angle (T/B/L/R)	85'/85'/85'/85'
	Resolution	1024×600
	Color	24-bit
	Brightness	400 cd/m ²
	Backlight	LED
	LCD Life	50000 Hours
	Touch Screen	4-line Industrial Touch Screen
	CPU	4-core 1.2G 64-bit ARM Processor
	Memory	4GB FLASH+512MB DDR
	RTC	Built-in
	SD Card	Micro SD (TF) Card
	Ethernet	1-line 10M/100M adaptive
	USB Ports	1 USB Slave 2.0 port, 1 ↑ USB Host 2.0 port
	Program Downloading	USB Slave/U-disc /Ethernet
	Serial Communication Port	COM1: RS232/RS485/RS422; COM2: RS485/RS422 COM3: RS232
Specifications	Rated Power	< 10W
	Rated Voltage	DC24V, working range DC 9V~28V
	Power Protection	Protect from lightening and surging
	Power Loss Allowed	< 5mS
	CE & RoHS	Confirms to EN61000-6-2:2005, EN61000-6-4:2007 standard, confirms to RoHS; lightening and surging ±1KV, Group pulse±2KV, static contact 4KV, Air discharge 8KV
Environment Specifications	Working Temperature	-10~60°C
	Storage Temperature	-20~70°C
	Anti-violet	Prohibit working under strong violet environment such as direct sunshine.
	Environment Humidity	10~90%RH (non condensate)
	Anti-vibration	10~25Hz (X/Y/Z direction 2G/30minutes)
	Cooling	Natural Cooling

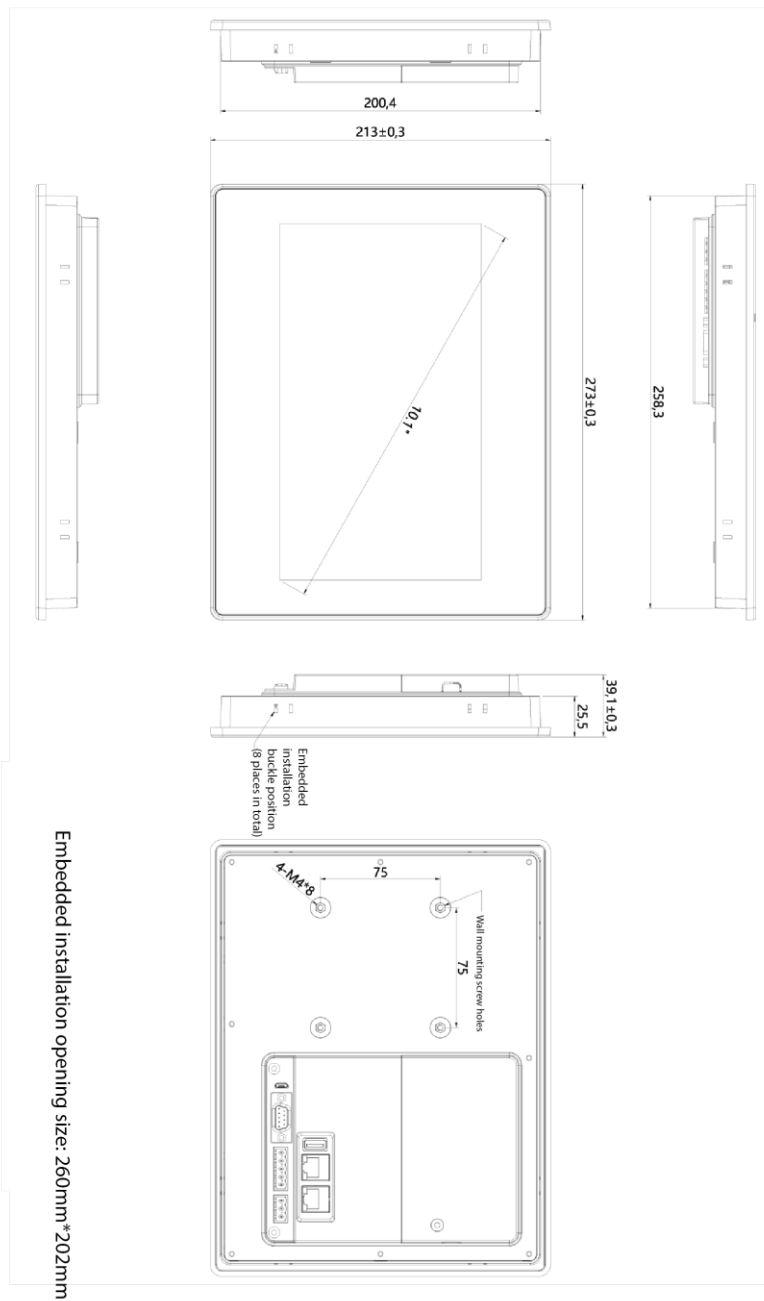


Mechanic Parameters	Installation	Embedded Installation/VESA Installation
	Protection Grade	Front panel confirms to IP65(flat cabinet installation), back cover confirms to IP20
	Mechanic Structure	Aluminum Frame
	Hole Size	260mm×202mm
	Machine Size	274mm×214mm×39mm, thickness 26mm without expanding
	Weight	About 1450g

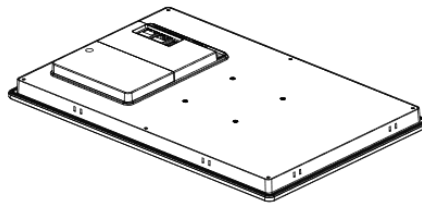
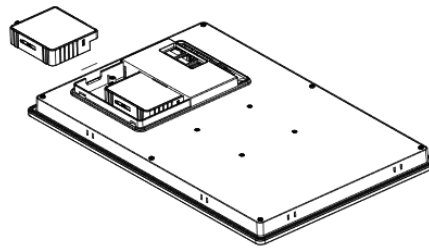
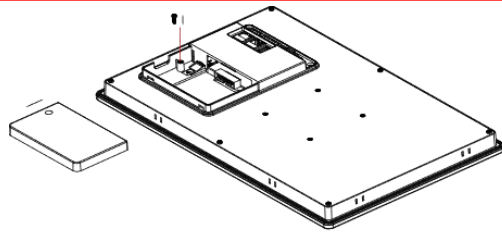
Wiring Definition

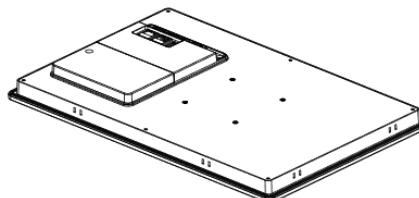
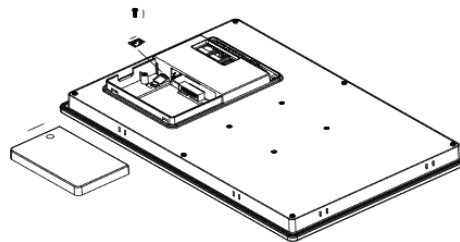
Power Terminals (Pin1~3 from left to Right)		
	Pin1	DC24V
	Pin2	GND
	Pin3	FG
DB9 Serial ports (COM1/COM3)		
	Pin1	Rx-(B)
	Pin2	RxD (COM1 RS232)
	Pin3	TxD (COM1 RS232)
	Pin4	Tx-
	Pin5	GND
	Pin6	Rx+(A)
	Pin7	RxD (COM3 RS232)
	Pin8	TxD (COM3 RS232)
	Pin9	Tx+
COM2 Ports		
	Pin1	Rx+(A)
	Pin2	Rx-(B)
	Pin3	GND
	Pin4	Tx+
	Pin5	Tx-
USB Host		
	USB Type A	Used for connecting U-DISC, barcode scanner
USB Slave		
	Micro USB	Used for Program Downloading and Testing
FBox Expansion Module		
	Expansion Module Card Slot	Supporting Module: FBox FBox-2G-A FBox-4G-A FBox-4G-C FBox-WiFi-A

Size MAT-HMI-R9100-WE

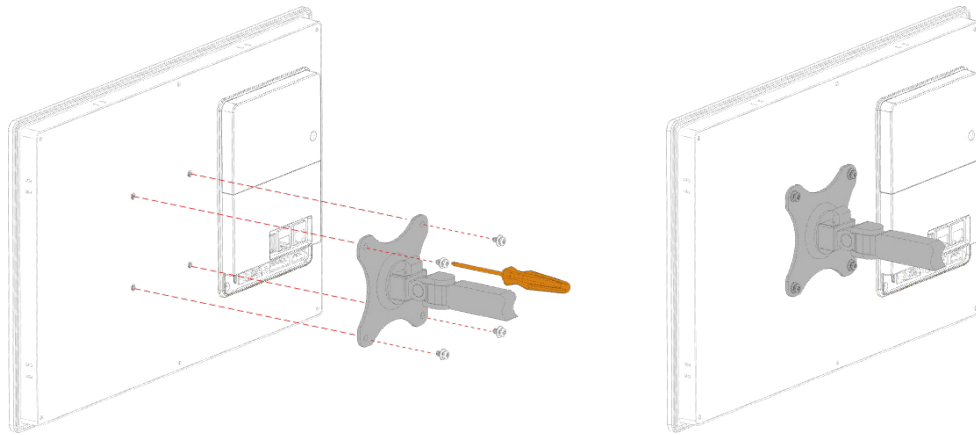


FBox Installation Photo

**TF Card Installation Diagram**



VESA Installation Diagram



It includes screws PM 4*8 without Vesa frames.