Intelligent Industrial IoT HMI

FP910R

Product Overview

FP910R is a new generation 10.1” touch screen based on Linux operation system Intel X86 frame high performance processor and large memory. It can provide data processing and high-efficient running for devices. FAI910R’s configuration software is stronger than usual, it brings rich configuration and model selection, the new application can provide flexible, innovative and open programming experience.

FP910R adopts fully metal frame, touch screen design. Embedded installation method, various human machine interface communication. It is widely used on industrial manufacture scenarios.

Product Specifications

1. Hardware parameter

Display diagonal	10.1”
Display Type	16:9 LCD TFT
Resolution	1024× 600 pixels
Color range	Up to 16.7 million
Brightness (cd/m²)	350
Backlight	LED

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Half Brightness Life Time (MTBF*1)	50000H
LCD viewing angle （T/B/L/R)	80'/80'/80'/80'
Touch screen	4-wire Resistive Type
CPU	Integrating Intel Celeron J3455 4 core 1.50GHz processor, up to 2.30GHz
Random access memory	8GB DDR3L, Support 1333/1600/1866 MHz
Internal flash memory	128GB，SATA SSD hard discs
RTC	Built-in
Ethernet port	2*RJ45, based on 10/100/1000Mbps
USB Port	4*USB3.0 (Type-A, Rear IO)
Serial port	1 * RS232 (COM1, Full lanes, DB9/M)
HDMI Port	2*HDMI (upright 90° Type-A): up to 3840x2160@30Hz
WiFi function	Optional
Horn	Built-in
Download method	USB drive / Ethernet port

2. Software parameters

Software	**Operating system**	Linux
	Programming software	FlexMi Unified
Electrical specification	**Rated power**	< 60W
	Rated voltage	DC12V/5A
	Power supply protection	Isolated power adapter,With lightning surge protection
	Allowable power-off time	< 5ms
	Certification	CE, RoHS

3. Environmental requirements

Environmental requirements	**Working temperature**	0~50℃
	Storage temperature	-20~60℃
	Environment humidity	10~90%RH (Non condensing)
	Anti-vibration	10~25Hz (X,Y,Z direction 2G/30 min)
	Cooling method	Natural Cooling
Mechanical Parameters	**Installation method**	Panel mount
	Protection	Front：IP65, Rear：IP20
	Mechanical Structure	Non-ferrous metal alloy housing
	Panel Cutout	260mm×202mm
	Net Weight	About 1560g

Wiring Definition

Port Type	Port diagram	Port Definition	Description
Power Terminals		Power Socket	Power socket
DB9 Serial Ports (COM1)		Pin	Functions
		Pin1	DCD#
		Pin2	RxD (COM1 RS232)
		Pin3	TxD (COM1 RS232)
		Pin4	

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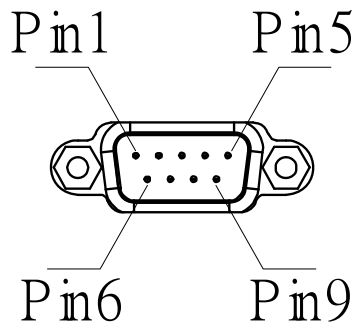
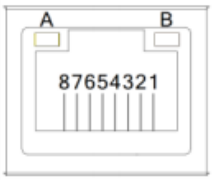
<tr><td rowspan="6"></td><td rowspan="6"> 
</td><td>Pin5</td><td>GND</td></tr>
<tr><td>Pin6</td><td></td></tr>
<tr><td>Pin7</td><td></td></tr>
<tr><td>Pin8</td><td></td></tr>
<tr><td>Pin9</td><td>RI#</td></tr>
<tr><td>Pin1</td><td>DCD#</td></tr>
<tr><td>USB port</td><td> </td><td>USB 3.0 Type-A Host Port</td><td>Used for connecting U-DISC, scanning electrostatic code scanners.</td></tr>
<tr><td>HDMI Port</td><td> </td><td>HDMI 2.0a</td><td>supports 1080P display</td></tr>
<tr><td>Ethernet Ports</td><td> 
</td><td>RJ45</td><td>
<table>
<tr><th>Pin</th><th colspan="2">Definition</th><th>Pin</th><th colspan="2">Definition</th></tr>
<tr><td>1</td><td colspan="2">MDI0_1+</td><td>5</td><td colspan="2">MDI2_1-</td></tr>
<tr><td>2</td><td colspan="2">MDI0_1-</td><td>6</td><td colspan="2">MDI1_1-</td></tr>
<tr><td>3</td><td colspan="2">MDI1_1+</td><td>7</td><td colspan="2">MDI3_1+</td></tr>
<tr><td>4</td><td colspan="2">MDI2_1+</td><td>8</td><td colspan="2">MDI3_1-</td></tr>
<tr><td rowspan="3">A</td><td rowspan="3">Active LED</td><td>ACT: Twinkling Yellow</td><td rowspan="3">B</td><td rowspan="3">Speed LED</td><td>1000M: Turn Yellow</td></tr>
<tr><td>Only LINK: Lights Off</td><td>100M: Turn Green</td></tr>
<tr><td>Stop: Lights Off</td><td>10M: Lights Off</td></tr>
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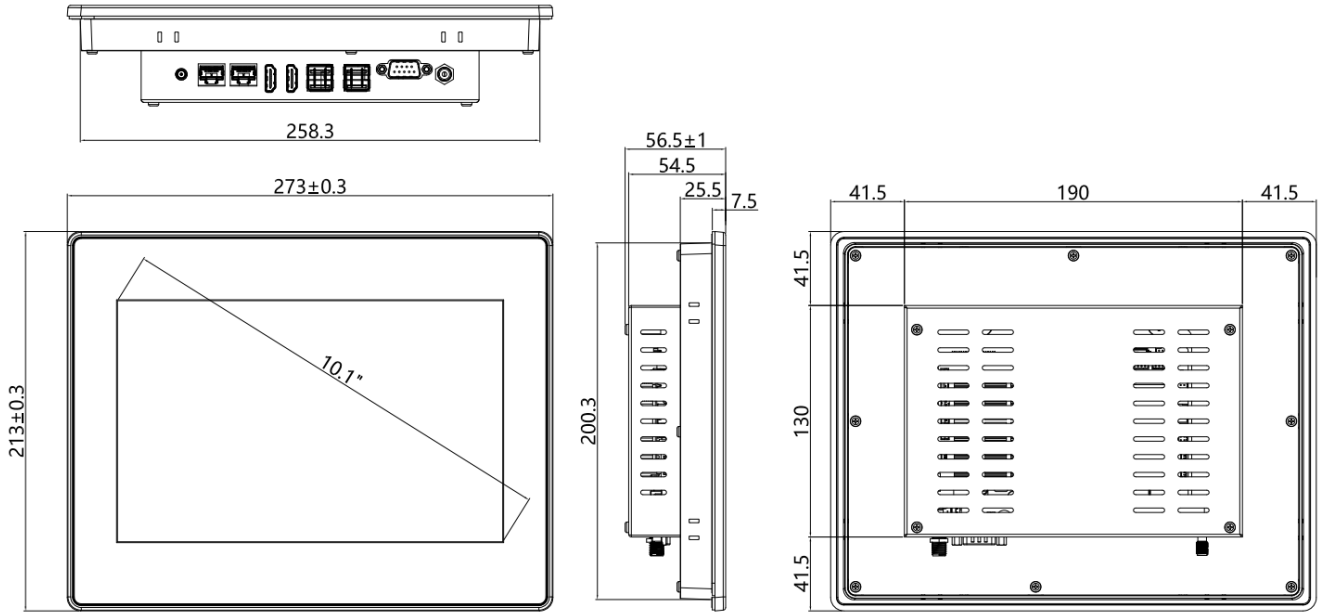
Dimension drawings

FAI910R **Unit:mm**



FAI910R Panel Cutout: 260mm*202mm