

Flexem FPAD9 Series HMI

Model: FPAD916R001

Product Overview

FPAD9 series is Flexem's new-generation high-end IoT HMI. Based on Linux operating system, equipped with Intel X86 architecture high-performance processor, and large-capacity memory, it has a solid foundation for big data processing and efficient operation. With brand new configuration software, abundant configuration resources and templates, as well as powerful application features, it offers the users a flexible, innovative, and open-ended programming experience. Thin and light housing, flush-mounted installation and VESA installation make the device suitable for installation in any application environment. Multiple types of human-machine communication interfaces make itself a preferred choice for being a hosting information device.

Product Appearance







Product Specifications

	Display	15.6" 16:9 TFT LCD					
	LCD Viewing Angles (T/B/L/R)	85'/85'/85'					
	Resolution	1920×1080					
	Colors	24-bit					
	Brightness	250 cd/m ²					
	Backlight Type	LED					
	LCD Lifetime	50000 hours					
	Touch Panel	4-wire industrial resistive touchscreen					
	CPU	Integrated Intel Celeron J3455 4-core 1.50 GHz processor, up to 2.30 GHz					
Hardw	Memory	8 GB DDR3L, Support 1333/1600/1866 MHz					
are	Storage	128 GB, SATA SSD					
	RTC	Built-in					
	Etha ma at	LAN1:RJ45, 10/100/1000 Mbps;					
	Ethernet	LAN2:RJ45, 10/100/1000 Mbps					
	USB Port	4 * USB3.0 (TYPE-A, Rear IO);					
		Explanation: RS485 communication can be achieved via					
		applying USB-to-RS485 converter *1					
	Display Port	2*HDMI (upright 90° TYPE-A): up to 3840x2160@30Hz					
	Serial Port	1 * RS232 (COM1, Full lanes, DB9/M)					
	Wi-Fi	Depend on the choice of the user					
	Horn	Built-in					
Softwar	Operating System	Linux					
е	Programming	FStudio Unified					
	Rated Power	45 W					
	Input Power	DC24V, working voltage range DC24V ± 20%					
Electric	Power Protection	Isolated power adaptor with lightning surge protection					
al	Power Interruption	< 5 m ^Q					
Specifi	Tolerance	< 5 mS					
cations		EN61000-6-2:2005, EN61000-6-4:2007 standards certified					
	Certification	RoHS certified;Lighting surge:±1kV,Surge cluster:±2 kV;					
		Contact ESD:4kV;Air ESD:8kV					
	Operating	0~50℃					
Environ	Temperature						
mental	Storage Temperature	-20 ~ 60°C					
Specifi cations	UV Resistance	Operating in high UV environment is prohibited (e.g., in					
	O V 1 (COISIAITOC	direct sunlight)					
	Environmental	10 ~ 90% RH(non-condensing)					



	Humidity	
	Vibration Endurance	10 ~ 25 Hz(X、Y、Z direction, 2G / 30 minutes)
	Cooling Method	Natural Cooling
	Installation Method	Flush-mounted
Mecha	Protection Level	Front: IP65(with NEMA enclosure),Rear: IP20
nical	Enclosure material	Non-ferrous alloys
Specifi	Cutout Dimensions	380mm×245mm
cations	Overall Dimensions	394mm×256mm×53.3mm
	Weight	About 2950g

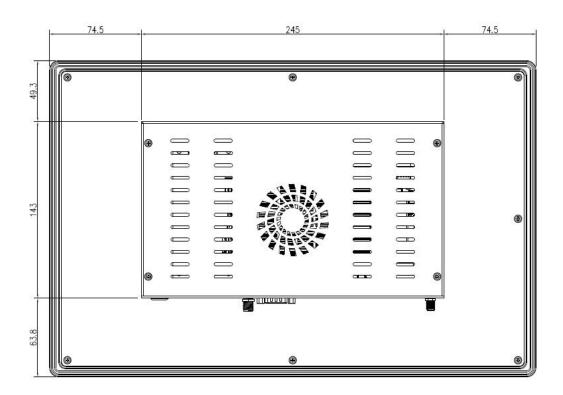
Wiring Definition

PowerSwitch								
	Power Switch	The FPAD'power supply can be disconnected by pressing this power switch. (Note: When the FPAD computer is turned on and working normally, this switch should not be frequently turned off to power off, which can cause system abnormalities.)						
Power Terminal (Pin1~3 from left to right)								
	Pin1	DC24V						
[AAA]	Pin2	GND						
	Pin3	FG						
DC12V power adapte	r socket (spare)							
	Power adapter socket	Connect to the external power adapter plug (12V/5A power supply, threaded, rotatable lock fixed). Note:External power adapter, requires ≥ 60W						
DB9 Port(COM1/COM	//3)							
	Pin1							
D: 1 D: 5	Pin2	RxD (COM1 RS232)						
$\begin{array}{ccc} P & \text{in } 1 & P & \text{in } 5 \\ \hline \end{array}$	Pin3	TxD (COM1 RS232)						
	Pin4							
	Pin5	GND						
	Pin6							
Pin6 $Pin9$	Pin7							
	Pin8							
	Pin9							

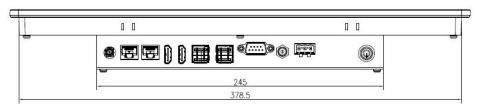


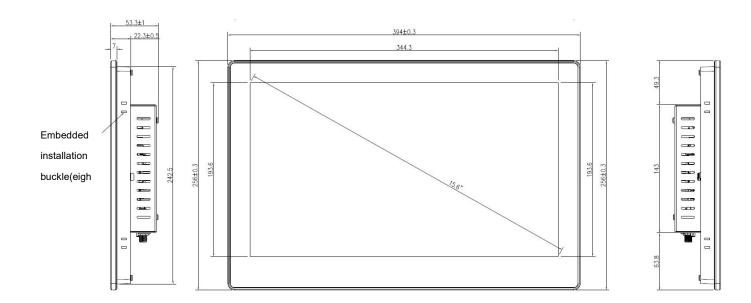
USB Host *4 Port									
USB Type A 3.0			For peripheral devices, such as flash drive or bar code scanner, etc. RS485 communication can be achieved via applying USB-to-RS485 converter *1						
HDMI Port *2									
	HDMI 2.0a	HDMI output port,support 1080P display.							
Ethernet port*2									
A B	RJ45	Pin		Definition	Pin		Definition		
		1		MDI0_1+	5		MDI2_1-		
87654321		2		MDI0_1-	6	MDI1_1-			
		3		MDI1_1+	7		MDI3_1+		
	110-10	4		MDI2_1+	8		MDI3_1-		
		А	Active LED	ACT: Twinkling Yellow		Speed	1000M: Turn Yellow		
				Only LINK: Lights Off Stop: Lights Off	В	LED	100M: Turn Green 10M: Lights Off		
				Stop: Lights Off	<u> </u>		Town. Lights Off		
Antenna Port (Optional)									
©	Antenna rocket	SMA antenna port							

Dimension drawings









Cutout dimensions of flush-mounted installation: 380 mm * 245 mm