

PACSystems™ RXi HMI

Intuitive Visualization for Machines of the Digital Age

Next Generation Visualization

PACSystems™ RXi HMI is the perfect machine visualization solution to help your customers drive improvement in operational performance and fully leverage the skill set of today's industrial workforce.

With vivid, realistic graphics and smartphone-like usability the PACSystems RXi HMI makes your machine easy to operate from day one. Collaboration and decision making will be faster for your customer because their entire team can see the same machine visualization as the machine operator, from anywhere, on any device. Plus analyzing the past and troubleshooting current issues are simplified with pre-loaded user-friendly data analytics software.

The PACSystems RXi HMI is IIOT ready with extensive protocol support, OPC-UA for better data contextualization, and MQTT for easy cloud connectivity. It is also constructed to shield your customers from future risks, both digital and physical, in the harsh reality of industrial environments.

Operate with Ease

Customers will find your machine easier to operate thanks to the realistic and vivid graphics you can easily generate on the PACSystems RXi HMI. They also will find the multi-touch screen operation works just like a smartphone, making it a snap to learn for new operators. Unlike some alternatives, the PACSystems RXi HMI is constructed using Projected Capacitive Touch (PCT/PCAP) screen technology so you can deliver higher brightness and clarity as well as ten-point touch sensitivity. Plus, on our outdoor options, glare is significantly reduced, thanks to the optically bonded and UV protected glass screens, so your machine's display is always easy to read regardless of the lighting environment.

Collaborate from Anywhere

When it comes to the day-to-day operation of your machine, faster collaboration and decision making can really help drive your customers performance. With the PACSystems RXi HMI you can easily provide your customer's entire management and maintenance teams the ability to interact with the same intuitive display the operator has at the machine – securely,



instantly, and remotely from anywhere. So, the team can collaborate and problem solve even if they are not together. PACSystems RXi HMI deploys HTML5 pages representing the display screens as created. Clients are based on web browsers and can be local to the device such as the HMI control panel, or remote such as a PC or mobile device. All the graphics are automatically converted to scalable vector graphics to dynamically display, as predefined in the project, in local client instances using the HTML5 browser. With PACSystems RXi HMI, a virtually unlimited number of people can visualize the machine from anywhere with the same interface and same features.

IIOT Ready: Analyze, Troubleshoot and Diagnose Effectively

Your customer will also value the faster access to data based operational insights to maximize their OEE. PACSystems RXi HMI comes with a robust, preloaded robust tool sets and graphics package placing the operational insights your customers need at their fingertips. A Data Trending Tool provides them a clear snapshot of productivity and quality. The SQLite Database tool and PAC Analyzer help your customer troubleshoot problems and minimize downtime. Plus, through the support of protocols such as OPC-UA and MQTT the PACSystems RXi HMI enables easy communication for cloud-based services and better data contextualization.

Shield from Harsh Environments

The PACSystems RXi HMI also shields your machine interface against both digital and physical risks across a very wide range of customer environments. The RXi HMI is designed in accordance with the IEC 62443 Global Automation Cybersecurity Standards to support your customers overall digital security strategy. The PACSystems RXi HMI offers premium protection in wet applications with certifications

for both high pressure water jets and Marine applications. It also is approved for use in hazardous material applications as well as across a very wide range of temperatures -20°C to +65°C. Additional protection throughout the lifetime of the device is provided by chemical, impact, scratch, and dust resistance. The PACSystems RXi HMI is rugged, reliable, and secure in the harshest industrial environments.

Specifications

Display Size		12"	15"	19"	24"
Display	Resolution	1280 x 800 WXGA	1920 x 1080 Full HD		
	Format	Widescreen (16:10)	Widescreen (16:9)		
	Orientation	Landscape			
	Reading Angle (°)	176 (H) / 176 (V)		170 (H) / 170 (V)	178 (H) / 178 (V)
	Display Off-Color	Black			
	Contrast	1000:1	800:1	1000:1	5000:1
	Brightness (cd/m2)	400 (1000 with Outdoor SLR Screen)	450 (1000 with Outdoor SLR Screen)	350	300
	Colors	16.2 Million			
	MTBF Backlighting	50,000 h (at 25°C)			
	Backlight	LED, Dimmable via Software			
Storage	Internal	64 GB MLC SSD			
	External Slot	1 x External Micro SD/ SDHC Card Slot (up to 32GB)			
Watchdog Timer	Timer Levels	255 timer levels, set up by software			
Operating Control	Method	Touch			
Touchscreen	Technology	Projected Capacitive Touch (PCT/PCAP)			
	Touch Sensor	Multi-touch (Ten-Point) Note: Unit's touchscreen only makes sound when connected to an external speaker. No cursor displays when touched.			

		Display Size			
		12"	15"	19"	24"
Interfaces	Port 1	4 x 10/100/1000 Base T Ethernet RJ45			
	Port 2	1 x RS-232 COM Port (5-Pin Connector, Isolated, use 24-16AWG (0.2-1.3mm ²), strip-length 10mm) 1 x RS-485 COM Port (5-Pin Connector, Isolated, use 24-16AWG (0.2-1.3mm ²), strip-length 10mm)			
	Port 3	2 x USB 3.0 (Type-A) 2 x USB 2.0 (Type-A)			
	Port 4	1 x DisplayPort			
	Port 5	1 x Mic In (Mono) (3.5mm Jack)			
	Port 6	1 x Line Out (Stereo) (3.5mm Jack)			
Status Indicators	Front Bezel Tri-color LED	Amber / Green / Red			
	On-board Buzzer	Yes (85dB sound level with 80mA mean current when connected to speaker)			
Power-Supply	Voltage [V]	+24VDC ±10% (3-Pin Connector, Isolated, use 28-14AWG (0.2-1.5mm ²) wire rated 90C, 1.7 in-lbs (0.19Nm) torque)			
Power Consumption	Maximum Wattage [W]	33W	39W	35W	52W
Protection-Class/Installation	Front-Side	IP66 & Type 4/4X (When Installed to a suitable Wall/Panel)			
	Back-Side	IP20/Open Type product for mounting in an ultimate enclosure Pollution Degree 2 environment			
Operating System	Installed Standard	Windows 10 IOT Enterprise LTSC			
Software Tools	Tool 1	Secure & Trusted Boot Capability			
	Tool 2	DHCP-Client, Web Browser (IE or Google Chrome), Java JRE Capability			
Design	Housing	Aluminum Die Casting (Front)			
	Cooling	Natural Convection (Fanless Passive Cooling)			
Environmental	Operating Temperature	-20°C to +65°C			
	Storage Temperature	-30°C to +70°C			
	Operating Humidity	85% RH (non- condensing) @ 30°C			
	Operating Altitude	10000 ft. (3.000 m)			
	Vibration	1Grms / 5 ~ 500Hz (Random) / Operation IEC 60068-2-64 10G peak acceleration (11 msec. duration)/operation IEC 60068-2-27			

		Display Size	12"	15"	19"	24"
Power Consumption	Panel Cutout Dimensions (mm)		317 (W) 214.5 (H)	398 (W) 245.5 (H)	482 (W) 297 (H)	581 (W) 360 (H)
	VESA Mounting	100 x 100				
	Hardware Included	Mounting Clamps				
Physical Specification	Net Weight (kg)		3.8	5.1	6.9	9.0
	Dimensions (mm)		329.1 (W) 226.8 (H) 66 (D)	410.2 (W) 257.6 (H) 65 (D)	500 (W) 315 (H) 70 (D)	600(W) 382(H) 71(D)
Certifications	Certifications	UL and cUL 62368, UL and cUL 61010, IECCEB Scheme				
		UL TYPE 4 & 4X, IP66 (ANSI/IEC 60529)				
		CE (EN 62368, EN 61000-6-4, 61000-6-2)				
		FCC Part15 Class A				
		RoHS				
		UL Listed US/CAN Hazardous Locations: Class 1 Division 2, Class 2 Division 2, Class 3 Division 1				
		ATEX Zone 2/22 & IECEx				
		Marine: ABS, BV, LR, DNV GL				

Ordering Information

Part Number	Screen Size	Description
IC760CSW12CDA	12"	12" PACSystems RXi HMI Emerson Bezel, Widescreen
IC760CSW15CDA	15"	15" PACSystems RXi HMI Emerson Bezel, Widescreen
IC760CSW19CDA	19"	19" PACSystems RXi HMI Emerson Bezel, Widescreen
IC760CSW24CDA	24"	24" PACSystems RXi HMI Emerson Bezel, Widescreen
IC760COW12CDA	12"	12" PACSystems RXi HMI Emerson Bezel, Outdoor SLR Widescreen
IC760COW15CDA	15"	15" PACSystems RXi HMI Emerson Bezel, Outdoor SLR Widescreen

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