

PACSystems™ RXi2-LP Industrial PC

Reliable, Ruggedized, Compact Computing

Introduction

Emerson has developed a small, reliable, and yet, powerful industrial computer (IPC) in the PACSystems RXi2-LP. Part of the family of RXi2 IPCs, the PACSystems RXi2-LP fills a niche with reliable processors, fast SSD storage, strong graphics, and enhanced security features in a compact form factor.

The PACSystems RXi2-LP IPC delivers compact, rugged, and basic to mid-range performance computing capabilities to run HMI, historian, and edge analytics applications right at the machine. This enables improved real-time control of operations and better integration into plant-wide systems. Combining strong computing and graphical capability with a small form factor, the PACSystems RXi2-LP IPC is ideal for a wide range of industrial applications.

Consistent Performance

The PACSystems RXi2-LP IPC comes with either a Dual Core 1.0 GHz processor or a Quad Core 1.2GHz Processor with 4GB or 8GB of available DDR3 RAM. With Windows 10 IoT Enterprise LTSC OS installed standard, the PACSystems RXi2-LP IPC is ready to meet your software needs. Coupled with up to 4 USB and 4 separately addressable Gigabit ethernet ports, the PACSystems RXi2-LP creates a compact high-performance platform that lowers total cost of ownership. Seamless replacement of either component allows for powerful upgrades to the underlying computing technology.

Greater Uptime

All aspects of the PACSystems RXi2-LP IPC have been engineered for reliability in harsh environments, from the use of all industrial grade components to its fanless design. To help keep data and operations secure, the PACSystems RXi2-LP utilizes Trusted Platform Module 2.0 (TPM) and Microsoft Secure Boot technology. Security coupled with PACSystems RXi2-LP's strong shock and vibration resistance makes the PACSystems RXi2-LP a strong edge offering.



Enhanced Productivity & Lower Total Cost of Ownership

The PACSystems RXi2-LP IPC combines strong performance with reliability, enhancing productivity and low total cost of ownership through features such as compact size, reduced maintenance, low power consumption. The ability to add a screen to the back of the unit and create a Panel PC offers additional flexibility.

Pre-Loaded Edge Analytics

Do more at the edge with the PACSystems RXi2-LP optionally pre-loaded with Emerson's PACEdge™ software. This industrial PC delivers a powerful and tightly integrated solution with reliable, industrial computing and innovative, scalable and flexible automation software.

PACEdge is a singular, secure, and controlled environment for customers to begin their Digital Transformation. Edge processing maximizes the value of your data so you can generate real insights and improve your operation's reliability, safety, and energy optimization. PACEdge provides the foundation for these improvements by delivering

all aspects of edge processing with simplified IIoT application development, deployment, and administration. All components necessary in the IIoT application life cycle are brought together

in this single package to provide a unified and secure interface to decrease your development time and increase your deployable footprint.

Feature	Benefit
2nd Generation AMD G-Series SOC	Delivers mid-tier performance computing for applications that load, manipulate and store large amounts of data, or handle multiple communication ports in real-time
Modular Components	Easily attach a screen to your existing computing unit
Up to 4 Gigabit Ethernet ports	Network implementation flexibility
	Multiple high-speed Ethernet links for communication-centric applications with support for deterministic transfer of data/commands
Small or Large form factor	Low Profile unit with two form factors to fit various applications

Specifications

Processor	
	AMD G-Series SOC 2nd Generation GX-210HL Processor, 7W 2c 1.0GHz 1MB cache
	AMD G-Series SOC 2nd Generation GX-412GC Processor, 15W 4c 1.2-1.6GHz 2MB cache
Memory	
	4GB or 8GB DDR3L Memory
	Soldered, with ECC
Storage Interfaces	
	Primary storage device – SATA Slim
	32GB / 64GB / 128GB
Ethernet	
	Four 1-gigabit Ethernet channels – RJ-45 standard
Video/Graphics Interface	
	GPU frequency 267MHz Dual Core GX-210HL / 300MHz Quad Core GX-412GC
	Single DisplayPort++ 1.2 for a total of 2 independent displays or 1 independent screen when additional screen is attached to the unit
USB Interface	
	Two USB 3.0 external
	Two USB 2.0 external (on Quad core models)
Serial Communications	
	One RS232, One RS422/485 RTC
	RTC with Lithium coin cell battery
Power	
	Input – 24V DC ($\pm 25\%$) with protection

Environmental Temperature Range	
	Operating range: -25°C up to +65°C
	Storage range: -30°C up to +70°C
Mechanical	
	Rugged aluminum and stainless-steel housing for optimal thermal management and durability
	IP20 – Protection against particles
	Flat mounting orientation options: – VESA Mount option with screen attached – 75 x 75 on small – 100 x 100 on large
Software Support	
	Microsoft® Windows® 10 IoT LTSC Certifications
	PACEdge with optional Movicon Connex (pre-loaded options available)
Dimensions (H x W x D)	
	Small, Dual Core, 37 x 119 x 180.8 mm (1.46 x 4.69 x 7.12 in)
	Large, Quad Core, 33.7 x 160 x 298.3 mm (1.33 x 6.30 x 11.74 in)
Certifications	
	UL and cUL 62368, UL and cUL 61010, IECEE CB Scheme
	UL TYPE 4 & 4X, IP66 (ANSI/IEC 60529)
	CE (EN 62368, EN 61000-6-4, 61000-6-2)
	FCC Part 15 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	Description
R2L0N1A1A	RXi2-LP IPC: Dual Core GX-210HL 1GHz, 4GB RAM, 32GB SSD, 2xRJ45, Windows 10 IoT Enterprise LTSC
R2L0N1A0A	RXi2-LP IPC: Dual Core GX-210HL 1GHz, 4GB RAM, 32GB SSD, 2xRJ45, No OS
R2L0N1B1A	RXi2-LP IPC: Quad Core GX-412GC 1.2GHz, 4GB RAM, 32GB SSD, 4xRJ45, Windows 10 IoT Enterprise LTSC
R2L0N1B0A	RXi2-LP IPC: Quad Core GX-412GC 1.2GHz, 4GB RAM, 32GB SSD, 4xRJ45, No OS

R2L0N1A1B	RXi2-LP IPC: Dual Core GX-210HL 1GHz, 4GB RAM, 64GB SSD, 2xRJ45, Windows 10 IoT Enterprise LTSC
R2L0N1A0B	RXi2-LP IPC: Dual Core GX-210HL 1GHz, 4GB RAM, 64GB SSD, 2xRJ45, No OS
R2L0N1B1B	RXi2-LP IPC: Quad Core GX-412GC 1.2GHz, 4GB RAM, 64GB SSD, 4xRJ45, Windows 10 IoT Enterprise LTSC
R2L0N1B0B	RXi2-LP IPC: Quad Core GX-412GC 1.2GHz, 4GB RAM, 64GB SSD, 4xRJ45, No OS
R2L0N1A1C	RXi2-LP IPC: Dual Core GX-210HL 1GHz, 4GB RAM, 128GB SSD, 2xRJ45, Windows 10 IoT Enterprise LTSC
R2L0N1A0C	RXi2-LP IPC: Dual Core GX-210HL 1GHz, 4GB RAM, 128GB SSD, 2xRJ45, No OS
R2L0N2A1C	RXi2-LP IPC: Dual Core GX-210HL 1GHz, 8GB RAM, 128GB SSD, 2xRJ45, Windows 10 IoT Enterprise LTSC
R2L0N2A0C	RXi2-LP IPC: Dual Core GX-210HL 1GHz, 8GB RAM, 128GB SSD, 2xRJ45, No OS
R2L0N1B1C	RXi2-LP IPC: Quad Core GX-412GC 1.2GHz, 4GB RAM, 128GB SSD, 4xRJ45, Windows 10 IoT Enterprise LTSC
R2L0N1B0C	RXi2-LP IPC: Quad Core GX-412GC 1.2GHz, 4GB RAM, 128GB SSD, 4xRJ45, No OS
R2L0N2B1C	RXi2-LP IPC: Quad Core GX-412GC 1.2GHz, 8GB RAM, 128GB SSD, 4xRJ45, Windows 10 IoT Enterprise LTSC
R2L0N2B0C	RXi2-LP IPC: Quad Core GX-412GC 1.2GHz, 8GB RAM, 128GB SSD, 4xRJ45, No OS

Pre-Loaded Software Devices

Part Number	Description
R2L0N1A2AD	RXi2-LP w/ PACEdge: The RXi2-LP has a dual-core 1GHz processor, 4G RAM, 32G SSD & DIN rail mounting.
R2L0N2A2CD	RXi2-LP w/ PACEdge: The RXi2-LP has a dual-core 1GHz processor, 8G RAM, 128G SSD & DIN rail mounting.
R2L0N1A3AD	RXi2-LP w/ PACEdge & Movicon Connex: Movicon license includes the Automation Driver Pack, Basic Driver Pack & 2k OPC UA Tags. The RXi2-LP has a dual-core 1GHz processor, 4G RAM, 32G SSD & DIN rail mounting.
R2L0N2A3CD	RXi2-LP w/ PACEdge & Movicon Connex: Movicon license includes the Automation Driver Pack, Basic Driver Pack & 2k OPC UA Tags. The RXi2-LP has a dual-core 1GHz processor, 8G RAM, 128G SSD & DIN rail mounting.

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