

# RXi2-LP Industrial PC

## The Next Generation of Ruggedized Computing

Emerson has developed the next generation of its small, reliable and yet powerful industrial computer (IPC) in the RXi2-LP. Joining the rest of the family of RXi2 IPCs, the RXi2-LP (Low Profile) fills a niche with new processors, fast SSD storage, strong graphics, and enhanced security features in a compact form factor.

The RXi2 – LP IPC delivers compact, rugged, and mid-range performance computing capabilities to run HMI, historian, and 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 RXi2-LP IPC is ideal for a range of industrial applications.

### High Performance

The 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 LTSB OS installed standard, the RXi2 – LP IPC is ready to meet your software needs. Coupled with up to 4 USB and 4 separately addressable Gigabit ethernet ports, the 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 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 RXi2-LP utilizes Trusted Platform Module 2.0 (TPM) and Microsoft Secure Boot technology. Security coupled with RXi2-LP's strong shock and vibration resistance makes that the RXi2-LP a strong offering in the market.

### Enhanced Productivity & Lower TCO

The 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.

Feature	Benefit
2nd Generation AMD G-Series SOC	<ul style="list-style-type: none"> <li>Delivers mid-tier performance computing for applications that load, manipulate and store large amounts of data, or handle multiple communication ports in real-time</li> </ul>
Modular Components	<ul style="list-style-type: none"> <li>Easily attach a screen to your existing computing unit</li> </ul>
Up to 4 Gigabit Ethernet ports	<ul style="list-style-type: none"> <li>Network implementation flexibility</li> <li>Multiple high-speed Ethernet links for communication-centric applications with support for deterministic transfer of data/commands</li> </ul>
Small or Large form factor	<ul style="list-style-type: none"> <li>Low Profile unit with two form factors to fit various applications</li> </ul>

## 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 (±25%) with protection

### Environmental Temperature Range

- Operating range: -25°C to +65°C
- Storage range: -30°C 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 LTSB Certifications
- UL1950, CE class A, FCC-A

### 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 11.74in)

### Certifications

- UL and cUL 62368, UL and cUL 61010, IECCE CB 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	Description
<b>R2L0N1A1A</b>	RXi2-LP IPC, Dual Core GX-210HL 1GHz, 4GB RAM, 32GB SSD, 2xRJ45, Windows 10 IOT Enterprise LTSC
<b>R2L0N1A0A</b>	RXi2-LP IPC, Dual Core GX-210HL 1GHz, 4GB RAM, 32GB SSD, 2xRJ45, No OS
<b>R2L0N1B1A</b>	RXi2-LP IPC, Quad Core GX-412GC 1.2GHz, 4GB RAM, 32GB SSD, 4xRJ45, Windows 10 IOT Enterprise LTSC
<b>R2L0N1B0A</b>	RXi2-LP IPC, Quad Core GX-412GC 1.2GHz, 4GB RAM, 32GB SSD, 4xRJ45, No OS
<b>R2L0N1A1B</b>	RXi2-LP IPC, Dual Core GX-210HL 1GHz, 4GB RAM, 64GB SSD, 2xRJ45, Windows 10 IOT Enterprise LTSC
<b>R2L0N1A0B</b>	RXi2-LP IPC, Dual Core GX-210HL 1GHz, 4GB RAM, 64GB SSD, 2xRJ45, No OS
<b>R2L0N1B1B</b>	RXi2-LP IPC, Quad Core GX-412GC 1.2GHz, 4GB RAM, 64GB SSD, 4xRJ45, Windows 10 IOT Enterprise LTSC
<b>R2L0N1B0B</b>	RXi2-LP IPC, Quad Core GX-412GC 1.2GHz, 4GB RAM, 64GB SSD, 4xRJ45, No OS
<b>R2L0N1A1C</b>	RXi2-LP IPC, Dual Core GX-210HL 1GHz, 4GB RAM, 128GB SSD, 2xRJ45, Windows 10 IOT Enterprise LTSC
<b>R2L0N1A0C</b>	RXi2-LP IPC, Dual Core GX-210HL 1GHz, 4GB RAM, 128GB SSD, 2xRJ45, No OS
<b>R2L0N2A1C</b>	RXi2-LP IPC, Dual Core GX-210HL 1GHz, 8GB RAM, 128GB SSD, 2xRJ45, Windows 10 IOT Enterprise LTSC
<b>R2L0N2A0C</b>	RXi2-LP IPC, Dual Core GX-210HL 1GHz, 8GB RAM, 128GB SSD, 2xRJ45, No OS
<b>R2L0N1B1C</b>	RXi2-LP IPC, Quad Core GX-412GC 1.2GHz, 4GB RAM, 128GB SSD, 4xRJ45, Windows 10 IOT Enterprise LTSC
<b>R2L0N1B0C</b>	RXi2-LP IPC, Quad Core GX-412GC 1.2GHz, 4GB RAM, 128GB SSD, 4xRJ45, No OS
<b>R2L0N2B1C</b>	RXi2-LP IPC, Quad Core GX-412GC 1.2GHz, 8GB RAM, 128GB SSD, 4xRJ45, Windows 10 IOT Enterprise LTSC
<b>R2L0N2B0C</b>	RXi2-LP IPC, Quad Core GX-412GC 1.2GHz, 8GB RAM, 128GB SSD, 4xRJ45, No OS

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