

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 LTSC OS installed standard, the RXi2 – LP IPC is ready to meet your software needs. Coupled with up to 4 USB and up to 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 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, and low power consumption. The ability to add a screen to the back of the unit and create a Panel PC offers additional flexibility.



Features & Benefits

- **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	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 4GB or 8GB DDR3L Memory • Soldered, with ECC
Storage Interfaces	<ul style="list-style-type: none"> • Primary storage device – SATA Slim • 32GB / 64GB / 128GB
Ethernet	<ul style="list-style-type: none"> • Two (Dual Core) or Four (Quad Core) 1-gigabit Ethernet channels – RJ-45 standard
Video/Graphics Interface	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • Two USB 3.0 external • Two USB 2.0 external (on Quad core models)
Serial Communications	<ul style="list-style-type: none"> • One RS232, One RS422/485 RTC • RTC with Lithium coin cell battery
Power	<ul style="list-style-type: none"> • Input – 24V DC (±25%) with protection Environmental Temperature Range • Operating range: -20°C to +65°C • Storage range: -30°C to +70°C
Mechanical	<ul style="list-style-type: none"> • Rugged aluminum and stainless-steel housing for optimal thermal management and durability • IP20 – Protection against particles • Mounting orientation options: <ul style="list-style-type: none"> – Flat mount with included mounting bracket – VESA Mount option with screen attached (75 x 75 on small, 100 x 100 on large)
Operating System	<ul style="list-style-type: none"> • Microsoft® Windows® 10 IOT LTSC
Certifications	<ul style="list-style-type: none"> • UL1950, CE class A, FCC-A

Dimensions

SIZE	PROCESSOR	LENGTH	WIDTH	HEIGHT
Small	Dual Core	180.8mm (7.12in)	119mm (4.69in)	37mm (1.46in)
Large	Quad Core	298.3mm (11.74in)	160mm (6.30in)	33.7mm (1.33in)

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
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
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
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
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
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
R2LACCSMNT	RXi2 – LP IPC Flat Mounting Bracket Small
R2LACCLMNT	RXi2 – LP IPC Flat Mounting Bracket Large

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