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.

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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 (±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, IECEE 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
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

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