PACSystems RXi Controller

High Performance Distributed IO Controller Platform

GE Intelligent Platforms has leveraged its rich experience in embedded computing and control technology in the design of the innovative PACSystems RXi controller platform. The RXi Controller incorporates leading-edge CPU technology, the market leading industrial Ethernet network technology, and a unique user interface for maintaining the controller to deliver a control system unique in the industry.

The PACSystems RXi controller is PROFINET enabled, delivering a small footprint solution with highly flexible distributed I/O capabilities to equipment builders and end users. Its unique Intelligent Display Module provides configuration and maintenance functions at the controller without software. As a PACSystems controller, the RXi is fully compatible with applications written for any other PACsystems platform. The result is a High performance solution designed for distributed IO applications.

Higher Performance

The RXi Controller is designed for high performance distributed IO applications. With a high performance dual core CPU and Gigabit PROFINET (with built in MRP redundancy) and Ethernet ports, every aspect of the RXI has been designed for performance.

For even more power, the RXi controller can be combined with the RXi Modular IPC to deliver a unique control and computing platform for the factory floor. Integrated high-speed connectors allow instant data handling. Operator usability can be enhanced by pairing the RXi Modular IPC with new RXi panel displays with new multi-touch technology.

The unique combination of high performance control, integrated PROFINET, intelligent display module, and compact format truly distringuishes the RXi Controller for other offerings.

Greater Uptime

Systems with distributed architectures are easier to configure and maintain. In addition, RXi components are industrial temperature grade, which combined with patented thermal monitoring technology and sophisticated passive cooling techniques delivers reliable control in rugged environments.

Lower Total Cost of Ownership

RXi's compact control and computing platform allows users to simplify panel design and reduce the overall size of the panel while benefiting from the performance, maintainability, and upgradeability of the PACSystems platform. The optional Intelligent Display Module provides a maintenance touchscreen display right on the controller, providing faster interaction with the controller and simpler start-up.

FEATURE	BENEFIT
COMExpress CPU Technology	• Dual core processor for high performance in rugged applications • Rugged technology with wider temperature ranges, higher shock and vibration designs, suitable for industrial applications • Carrier and enclosure designs last across multiple CPU lifespans to provide faster performance enhancements
Integrated redundant ProfiNet I/O Interface	• Provides a Gigabit Ethernet I/O network connection with built-in cable redundancy (MRP) delivering IO cabling redundancy with no external switches
High-speed Interconnect Bus	• Enables truly unique combinations of control and Proficy (or other Microsoft® Windows® or Linux applications)
Built-in Data Storage	• Internal industrial grade SSD drive provides local long-term data retention
USB and SD interfaces	• Interfaces enable program loading, serial communications and data storage via standard devices

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Specifications

Storage
- 2 GB RAM – Controller
- Up to 64 GB Internal Flash Data Storage

Data Retention
- RXi specific Energy Pak provides power during power failure while data is written to NV RAM

Ethernet
- 2 Port (shared MAC) GB ProfiNet
- 1 x GB Ethernet

USB Interface
- 2 USB 2.0 Standard Size
- 1 Micro USB 2.0

Others
- SD Card (on Intelligent Display Cover)

Power
- Input: 24V DC

Environmental
- Operating: 0°C to +65° C (standard)
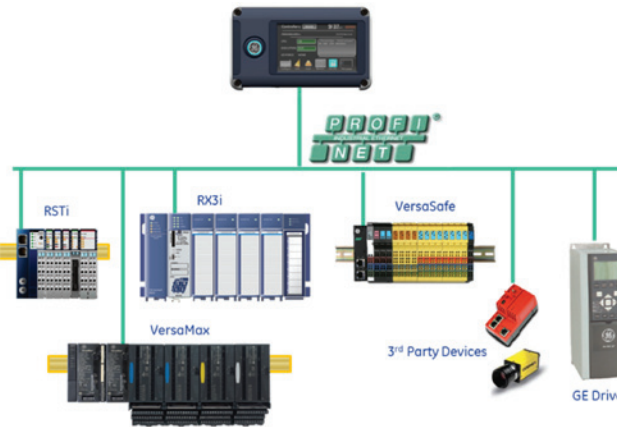- Storage: -40°C to +125° C
- Operating humidity: 10% to 90%

Mounting
- Panel Mount
- Dinrail Mount with Optional DIN Mount Plate

↑ Controller information and diagnostics screens built into IDM

→ Customize your solution by stacking together RXi Controller, IDM, Panel Displays and IPCs

← Connect to the I/O or your choice in line, star, or ring topologies

Ordering Information

ICRXICNPB000A	**RXi Controller***
ICRXIACCIDM01A	**RXi Intelligent Display Module**
ICRXIACCIFM01A	**RXi Intelligent Faceplate**
ICRXIACCBPL	**RXi DIN Mounting Plate**

* Each RXi Controller must be used with an Intelligent Display Module or Intelligent Faceplate

About GE Intelligent Platforms

GE Intelligent Platforms is a division of GE that offers software, control systems, services, and expertise in automation and embedded computing. We offer a unique foundation of agile and reliable technology providing customers a sustainable competitive advantage in the industries they serve, including energy, water, consumer packaged goods, oil and gas, government and defense, and telecommunications. GE Intelligent Platforms is headquartered in Charlottesville, VA. For more information, visit www.ge-ip.com.

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