



PACSystems™ controls can get your assets to a higher level of performance



GE pioneered the Programmable Automation Controller- a portable multidiscipline control engine and universal programming environment free to execute on multiple hardware platforms providing users application repeatability not seen before in traditional PLCs. We combine that with our unique embedded technology experience and dedication to open standards to provide industry leading high performance, high availability, and sustainability for the most demanding applications

Optimizing Interoperability for performance

We measure performance across the entire platform, distributed or centralized, from I/O handling, to program execution, to all data exchanges.

Our PACSystems platforms have focused on streamlining all interconnects to reduce bottlenecks and errors that can slow down any operation. It starts by building on standards such as Ethernet for data handling and device control. We have integrated PROFINET, a leading open Ethernet protocol with real time control for distributed I/O at gigabit speed. Easy simple installation, we eliminate the need for gateways and bridges with built in switch and cable technology. When the application needs to move large amounts of data in sub milliseconds across platforms, our unique technology, Reflective Memory, can handle over standard fiber.

Performance is also measured in execution speed and consistency. Our newest platform the RXi uses COMExpress, a highly integrated PC technology combining multiple functions in a compact form factor, to execute the toughest applications fast and efficiently. The RX7i and RX3i, traditional modular controls, use open standards for fast communication between processors. This consistent high speed communication allows high performance functionality such as the RX3i PACMotion to synchronized up to 40 servo axis in 1ms while providing on the fly command changes.

Scalable High Availability

PACSystems has high standards of reliability, availability and serviceability. Depending on the industry, the business impact of downtime can vary significantly. Users want options in how to maximize production uptime. It can be as simple as redundant power supplies to protect a power failure, complete system backup with bumpless fast switchover in case of a failure at a remote pump station, or multiple backup systems to protect data center outages.

With PACSystems, our architecture lets you choose the system that fits your needs. With a distributed PROFINET I/O system making a line architecture into a ring with one additional wire will allow the system to survive a node going down or needing maintenance. Our high availability system is a leader in fastest switchover to the backup system with no bump in operations. If your system is mission critical, our PACSystems solutions can provide complete peace of mind in your operation.

Investment Security

GE technology is designed to provide the customer the best solution for today and easy sustainability over the lifetime of the application. Moving to PACSystems or concern about future support, we continue to focus on application portability. We are design cloud-based tools so there is less software to install/maintain, collaboration is built in & all digital assets are protected. Our modular, distributed open architectures make it easy to add or modify any designs today and tomorrow.



PACSystems™ controls can get your assets to a higher level of performance.

Tradition has always been to provide small, medium, and large systems and users fit their application around the control. PACSystems offers platforms based on the need of the topology need of the application.

			
Product	PACSystems RXi	PACSystems RX3i	PACSystems RX7i
Select for:	The NEW PACSystems RXi family is an advanced, high-performance control and computing platform for distributed applications in process or discrete applications	High performance traditional modular, scalable control system designed for distributed or supervisory control in process or discrete applications	Standard embedded open architecture for industrial control applications requiring special purpose built VME modules or intense data handling
Development Environment	All controllers support PACSystems Control Engine; one control engine with one development environment with complete convergence of process and discrete applications into one automation discipline. Development, commissioning, and maintenance is performed using Proficy Machine Edition and Process Systems software suite		
Chassis	NA - Standalone COMExpress	Rack based PCI	Rack based VME64
CPUs	Multi core	Intel Atom processors	Intel processors
Memory	Up to 8GB	Up to 64MB	Up to 64MB
Distributed I/O Network	Integrated PROFINET for real time control of distributed I/OPROFINET (line, ring, star)*		
Special Functions	PACSystems High Availability – a scalable, synchronized, hot-standby redundancy control platform, our solutions ensure uninterrupted control of your applications and processes with total transparency*		
Motion	PACMotion is a versatile servo motion control that combines the benefits of a highly integrated motion and machine logic solution with the performance, flexibility and scalability required for advanced machine automation**		VME 3 rd party motion control
Safety	✓***	✓***	✓***

*Support for RX7i later

**Support for RXi later

GE's high-performance, PACSystems controls handle the most demanding applications in architectures that are built around the users needs – not force fitting to older ways of implementing control. Contact our local representative for more information about GE's solutions for your application.

Local GE Intelligent Platforms Representative

Eclipse Sales
 42501 Albroe Street
 Suite 201
 Fremont, CA 94538
 1-510-657-4553
 rick@eclipsesales.com

GE Intelligent Platforms Contact Information

Americas: 1 800 433 2682 or 1 434 978 5100

Global regional phone numbers are listed by location on our web site at www.ge-ip.com/contact

www.ge-ip.com

