



# PACSystems RSTi

Ethernet-based I/O delivers high performance and system flexibility

To succeed in an outcome-driven world, businesses must operate faster and leaner and be increasingly connected. At GE Intelligent Platforms, we understand today's connected business environment, and are committed to simplifying it. That's why we've designed an automation architecture that helps you design better machines and plants, operate them smarter, and redefine the interaction with your equipment.

A pivotal point in this architecture is the I/O. GE Intelligent Platforms leverages industry standards and our experience in embedded technology and high-performance automation to deliver I/O that simplifies system design while reducing costs.

With GE's Ethernet-based RSTi I/O, communications are enhanced through PROFINET, a high-speed, open protocol that facilitates the massive amounts of data that devices generate. The RSTi I/O unlocks the potential of continuity, connectivity, and collaboration for your control systems.

## Simplifying System Design without Sacrificing Performance

Equipment builders are continuously looking to improve the performance of their equipment while augmenting usability and reducing size and complexity. These requirements extend to the I/O control system. With PACSystems automation portfolio, GE provides high-performance control solutions with best-in-class integration of distributed (networked) I/O ideally suited for demanding applications.

The RSTi line of I/O extends the capabilities of PROFINET-enabled GE solutions with a comprehensive line of granular slice I/O that simplifies panel design and reduces the overall size of the control panel while offering the performance, maintainability and upgradability of the PACSystems platform.

## Decentralized I/O Reduces Cost

The RSTi decentralized I/O addresses the challenges of high installation overhead cost and lack of granularity of a centralized I/O system. The RSTi provides a high performance distributed I/O network that reduces the cost of field wiring. The distributed nature of the RSTi enables a machine builder to design in sections with distributed I/O drops closer to the field devices.

Decentralized I/O systems are easily disassembled and re-assembled with a standard, off-the-shelf Ethernet cable versus hundreds of wires coming back to a centralized control cabinet.

The compact RSTi I/O line allows the user to "right size" the application, minimizing cost and panel space. I/O expansion is simple with the slide and lock design.

FEATURE	BENEFIT
PROFINET Connectivity	High-speed I/O throughput that connects to hundreds of third-party devices.
System Diagnostics	Increased uptime by isolating system failures quickly.
Powerful Integration Tools	Reduced development time with Proficy Machine Edition tools.
"Build as You Go"	Granular design enables "right sizing" the application, resulting in minimum installation cost and panel space.
Rugged Design	Rugged "slide and lock" design provides an easy, secure installation.
Network Independence	Eight global standard network interfaces supported by the RSTi enables the user to standardize on one I/O system regardless of the bus requirements.



# PACSystems RSTi – Distributed I/O delivers high performance and system flexibility.

## Powerful Solution

The RSTi innovative design enables module power, communications and field power to be passed from one module to the next. Power Distribution, Power Booster and Field Power Isolation

modules are available to simplify installation wiring. The RSTi compact design (99 mm high x 70 mm deep x 12mm wide for I/O) reduces panel space.

### GLOBAL STANDARDS

- CE, UL, CUL approved
- UL Class 1 Div 2 and ATEX Zone 2
- Temperature Range -20°C to 60°C\*
- UL Temperature Range -20°C to 55°C\*

\* Depending on module type

### SPECIALTY MODULES

- Serial Communications
- High Speed Counters
- SSI Interface
- PWM and Pulse Output



**5VDC MODULE POWER AND COMMUNICATIONS**  
passed from one module to the next.

### FLEXIBLE NETWORK INTERFACES (SUPPORTS 32 I/O MODULES)

- PROFINET RT
- Modbus TCP/IP
- DeviceNet
- CC-Link
- PROFIBUS DP/V1
- Modbus Serial
- CANOpen

### OVER 80 MODULES TYPES AVAILABLE

- AC and DC I/O
- Relay Outputs
- Analog I/O
- RTD
- Thermocouple
- 2, 4, 8 and 16 point density

### USER FRIENDLY DESIGN

- Rugged Removable Terminal Block
- Tool-less Spring Clamp Wiring
- DIN Rail "Slide and Lock" design
- Color Coded Identification
- Easy to Read LED Status
- Diagnostic Test Points

**FIELD POWER**  
passed from one module to the next.



GE's high-performance, PACSystems RSTi PROFINET enabled family of I/O modules are part of GE Intelligent Platforms High Performance Platform strategy, that leverages industry standards plus the combination of our experience in embedded technology and automation to deliver long-life higher performance solutions that are easy to configure, manage and upgrade. Contact our local representative for more information about GE's solutions for your I/O requirements.

### GE Intelligent Platforms Contact Information

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Global regional phone numbers are listed by location on our web site at [www.ge-ip.com/contact](http://www.ge-ip.com/contact)

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