



# PACSystems RSTi

Distributed I/O delivers high performance and system flexibility.

By choosing GE Intelligent Platforms' RSTi I/O, customers gain access to a highly versatile, extremely robust and complete line of I/O modules with seamless integration into the PACSystems control family with industry-leading innovation, performance and reliability.

The RSTi distributed I/O is part of our High Performance Platform strategy that leverages industry standards along with our experience in embedded technology and automation to deliver long-life, higher-performance solutions that are easy to configure, manage and upgrade. To accomplish this, we leverage industry standards along with our experience in embedded technology and automation to deliver long-life, higher-performance solutions that are easy to configure, manage and upgrade.

## Simplification of System Design without Sacrificing Performance

Equipment builders are continuously looking for ways 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, 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 the PROFINET-enabled GE solution with the addition of a comprehensive line of granular slice I/O that allows customers to simplify panel design and reduce the overall size of the control panel while benefiting from the performance, maintainability and upgradeability of the PACSystems platform.

## Centralized vs Decentralized I/O

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 high 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 central control cabinet.

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

FEATURE	BENEFIT
PROFINET Connectivity	High-speed I/O throughput with connectivity to hundreds of third-party devices.
System Diagnostics	Increased uptime by quick isolation of system failures.
Powerful Integration Tools	Reduced development time with Proficy Machine Edition tools.
"Build as You Go"	The granular design enables "right-sizing" of the application that results in minimum installation cost and panel space.
Rugged Design	The rugged design of the RSTi "slide and lock" provides an easy, secure installation.
Network Independence	Over 10 global standard network interfaces supported by the RSTi that 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 (Pending)
- Temperature Range -20°C to 60°C
- UL Temperature Range -20°C to 55°C
- Marine Approvals (Pending)

### SPECIALTY MODULES

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



**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
- EtherCAT
- CC-Link
- PROFIBUS DP/V1
- Modbus Serial
- Ethernet IP
- CANOpen
- PowerLink

### 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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