

# PACSystems\* RSTi-EP CPE100

## Programmable Automation Controller

The demand for improved asset performance and productivity is increasing in manufacturing and infrastructure markets. They require even smaller applications with robust execution performance and a range of connectivity options to real-time application status information and diagnostics.

Emerson has designed a small form factor, high performance controller that enables equipment builders to improve performance and flexibility of their machines while reducing size, complexity, and cost.

### Small Footprint. Big Impact.

Leverage the power and flexibility of PACSystems in smaller applications. RSTi-EP CPUs make it possible to incorporate the entire PACSystems programming suite in stand-alone applications or as auxiliary control in larger process applications that use RX3i. This simplifies training for operators and maintenance workers and streamlines application development and integration.

CPE100 supports real-time application status, remote diagnostics and:

- Dual LAN interfaces with four Ethernet ports
- Built-in RS-232 serial port
- Support for a range of communications protocols, including PROFINET
- Up to 1 MB of non-volatile user memory All in just 1.5" (38.1mm) of DIN rail space.

### Speaking the Same Language

With CPE100, you can use the same runtime as existing RX3i controllers and leverage existing application libraries and templates while scaling footprint and performance for smaller application installations. Fast, easy-to-configure PACSystems technology and an extensive range of I/O options support scalable automation and highly distributed modular machine designs.



### PROFINET Advantage

PROFINET I/O solutions from GE can provide productivity and performance advantages for virtually any type of control application in a range of industries. PROFINET supports a variety of I/O without compromising system performance and can operate in high-noise environments. Connect to any of Emerson's purpose-built I/O families through a PROFINET interface for advanced flexibility and performance.

### Advanced Security

Without proper cybersecurity in place, industrial controls may be vulnerable to cyber threats. Emerson PACs enlist defense-in-depth architecture to help protect assets from these threats. The RSTi-EP CPE100 incorporates technologies such as Trusted Platform Modules and secure, trusted, and measured boot. Centralized configuration allows encrypted firmware updates to be executed from a secure central location. And, a suite of cybersecurity technology and tools help prevent unauthorized updates while built-in security protocols help protect against man-in-the-middle and denial of service attacks.

Feature	Feature Benefit
High performance	<ul style="list-style-type: none"> <li>■ Latest CPU features integrated System-on-Module processor for reduced latency and more precise data or I/O control</li> <li>■ Full PACSystems library of programming capabilities helps enable quick and convenient application development</li> </ul>
Simplification	<ul style="list-style-type: none"> <li>■ Store large amounts of data for better system statistics and analysis</li> <li>■ Store application files right on the control for fast access to drawings, debug or startup information, operational notes, and more</li> <li>■ Built-in multiport switch reduces I/O wiring cost and installation time</li> <li>■ Three-port switch allows for I/O network redundancy via Media Redundancy Protocol and a connection for local HMI without extra networking equipment</li> </ul>
Security	<ul style="list-style-type: none"> <li>■ Secure-by-design features include Trusted Platform Module and Measured Boot technology to enable encrypted, digitally signed firmware updates and help stop attempts to introduce malware onto the CPU. These same technologies are included on the PACSystems RX3i product line.</li> <li>■ Achilles Level 2 certification indicates that it meets industry standards for reliability and communications robustness</li> <li>■ Role-based access control assigns user privileges based on pre-defined levels of authorization, enhancing system security</li> </ul>
PROFINET distributed I/O connectivity	<ul style="list-style-type: none"> <li>■ Open standard for high-speed I/O connectivity</li> <li>■ Support for Media Redundancy Protocol for robust operation</li> <li>■ Replace devices without the need to reconfigure them for improved uptime</li> </ul>

## Specifications

### Part Number

- EPSCPE100

### Form Factor

- Standalone

### Storage

- 1MB

### I/O

- 2k Bits Discrete I/O
- 32k Words for Analog I/O

### Field Agent Support

- External

### Redundancy Support

- Media Redundancy Protocol (MRP)

### Ethernet Port

- 1 – 10/100
- 1 – 3-port switch 10/100

### Ethernet Communications

- SRTP Client/Server – (Max 8 Connections)
- Modbus TCP/IP – (Max 8 Connections)
- OPC-UA Server – (Max 8 Clients)
- EDG – (Max 16 Exchanges)
- PROFINET – (Max 8 IO Devices)

### USB Interface

- 1 USB-A 2.0

### Memory Card

- Micro SD

### Other Interface

- 1 RS-232

### Environmental

- -40°C to 70°C

**United States Office**

Emerson Automation Solutions  
Intelligent Platforms, LLC  
2500 Austin Dr  
Charlottesville, VA

**Germany Office**

Emerson Automation Solutions  
ICC Intelligent Platforms  
GmbH  
Memminger Straße 14  
Augsburg, DE 86159

**China Office:**

Emerson Automation Solutions Intelligent  
Platforms (Shanghai) Co., Ltd  
No.1277, Xin Jin Qiao Rd, Pudong,  
Shanghai, China, 201206

**Brazil Office:**

Emerson Automation Solutions  
Rua Irmã Gabriela, 51 – Cidade Monções  
São Paulo – SP, 04571-130

**Singapore Office**

Emerson Automation Solutions Intelligent  
Platforms Asia Pacific Pte. Ltd.  
1 Pandan Crescent,  
Singapore, 128461

**India Office**

Emerson Automation Solutions  
Intelligent Platforms Pvt. Ltd.,  
Building No.8, Ground Floor Velankani Tech Park, No.43  
Electronics City Phase I, Hosur Rd  
Bangalore-560100

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