

PACSystems™ RSTi-EP CPE200 Series

Compact Programmable Automation Controllers

Everything you need today to meet the business challenges of tomorrow

With security-by-design, open programming, and open communications built in, the RSTi-EP CPE200 compact controller series simplifies connectivity to traditional sensors and actuators as well as external analytics software platforms while reducing cost and complexity for OEMs and end users. Using the same high-performance runtime and toolchain as the PACSystems™ RX3i large controllers, this compact controller series delivers large Programmable Logic Controller (PLC) capability in a small, cost-effective, IIoT-ready form-factor so machine manufacturers need not sacrifice productivity or performance.

Cybersecurity Out of the Box

Industrial controls are constant targets of cyber threats. We understand the risk involved in securing our customers' most important assets. We believe in defense-in-depth architectures to secure assets from potential cyber threats.

With Achilles Level 2 Certification, the RSTi-EP CPE200 compact controller series has been developed to be secure by design, incorporating technologies such as Trusted Platform Modules, and secure boot to prevent malicious applications and “unauthorized” operating systems. A centralized configuration allows encrypted firmware updates to be executed from a secure central location. A broad suite of cyber-security technology and tools help prevent unauthorized updates while built-in secure communication protocols help protect against man-in-the-middle and denial of service attacks.

Open Communications to Enable Supply Chain Flexibility

In today's interconnected global economy, unexpected external events create disruptions which have a massive impact on narrow and rigid sourcing plans. Now more than ever companies need to design systems with supply chain flexibility in mind. To build a pliable supply strategy, leading companies are seeking products which anticipate uncertainty and offer them the maximum freedom to effectively operate no matter what happens.



The RSTi-EP CPE200 compact controller series is designed to enable supply chain flexibility. We have built-in open communications to allow you to easily connect a very wide range of 3rd party devices. With real time I/O networking capabilities, up to 3x 1-Gbps Ethernet ports and support of all popular communication protocols including PROFINET®, OPC UA, Modbus/TCP, and DNP3 the RSTi-EP CPE200 compact controller gives you the resilience to succeed.

Labor Saving Open Programming and Fleet Management

For many companies, expert technical talent is hard to find, hard to keep, and expensive. To combat this triple threat, an effective strategy when it comes to automation is to seek solutions which not only save time but can also be effectively used by a larger talent pool.

That’s why in addition to supporting traditional IEC 61131 languages, the RSTi-EP CPE200 compact controllers also natively support C, one of the world’s most popular and easiest-to-use programming languages. This makes it faster and easier for more engineers to write and run the high-performance algorithms that enable proprietary production strategies and advanced automation technologies.

Another labor-saving feature is the capability to execute fleet-wide application commissioning and updates without ever connecting a laptop. Simply store application variables to an SD card from User Logic to enable portable individual unit tuning parameters on standardized machine control application deployments. Use these for deploying

standardized tuning parameters across a set of machines or for toolless controller replacement in the unlikely event of a failure.

One Runtime. One Tool Chain.

Since the PACSystems RSTi-EP CPE200 compact controllers use the same runtime as existing RX3i controllers, users can leverage their 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 native I/O options support scalable automation and highly distributed modular machine designs.

Specifications

Product	EPXCPE205	EPXCPE210	EPXCPE215	EPXCPE220	EPXCPE240
User Memory	0.5 MB	1 MB	1.5 MB	2 MB	4 MB
System I/O	512 DIO 128AIO	2048 DIO 32128 AIO			
Local I/O Modules	16	32		64	
Network Redundancy	MRP Master/Client				
Ethernet Capabilities	Ethernet Ports: 1-2-port configurable as 2 NICs or 1 NIC switch 100/1000	Ethernet Ports: 1 – 100/1000 1-2-port switch 100/1000			
	Ethernet Protocols: SRTP Client/Server Modbus/TCP Client/Server OPC-UA Server EGD PROFINET	Ethernet Protocols: SRTP Client/Server Modbus/TCP Client/Server OPC-UA Server EGD PROFINET DNP3 Outstation			
Remote I/O Devices	8 PROFINET	16 PROFINET		32 PROFINET	
Serial Capabilities	Serial Ports: 1 – RS-232 Serial Protocols: ASCII Serial, Modbus/RT Slave				
USB Interface	2 – USB A2.0				
Memory Card	1 – Micro SD				
Temp Range	-40°C to +70°C				

Ordering Information

Model Number	Product Description
EPXCPE205	PACSystems RSTi-EP Backplane Controller, 2xRJ45 1Gbps Ethernet, 1xRS-232 Serial, 0.5MB User Memory
EPXCPE210	PACSystems RSTi-EP Backplane Controller, 3xRJ45 1Gbps Ethernet, 1xRS-232 Serial, 1.0MB User Memory
EPXCPE215	PACSystems RSTi-EP Backplane Controller, 3xRJ45 1Gbps Ethernet, 1xRS-232 Serial, 1.5MB User Memory
EPXCPE220	PACSystems RSTi-EP Backplane Controller, 3xRJ45 1Gbps Ethernet, 1xRS-232 Serial, 2.0MB User Memory
EPXCPE240	PACSystems RSTi-EP Backplane Controller, 3xRJ45 1Gbps Ethernet, 1xRS-232 Serial, 4.0MB User Memory