PACSystems™ RSTi-EP I/O

High Density, High Performance Slice I/O

Smarter Architecture

Today's connected machines require innovative, high-performance control systems that minimize unplanned downtime and increase productivity and efficiency. RSTi-EP combines powerful technology and a modular, compact form factor to deliver higher performance and maximized productivity in today's connected automation systems. The RSTi-EP remote I/O system is well suited for Industrial Internet enabled applications. It features an extended operating temperature range, enhanced diagnostics, plug-and-play connectivity and high channel density– all designed to simplify machine design and maintenance. Advanced diagnostics make RSTi-EP ideal for remote applications, especially those where I/O can be difficult to reach. RSTi-EP I/O is easily expandable, soy ou can adapt and extend coverage as your system evolves.

Higher Performance in Half the Space

The innovative RSTi-EP I/O is a powerful combination of clean layout, high density, and small footprint. It can accommodate up to 64 modules and 1024 I/O points per drop, while its 11.5 mm I/O slices maximize limited cabinet space. By adopting the most compact I/O system on the market, it's possible to incorporate smaller cabinet sizes into user-friendly system designs.You can even eliminate external components by using optional potential distribution modules to provide easy connections to input power, output power, and functional earth.

Remote, Real-time Diagnostics

With the RSTi-EP's integrated web server and advanced diagnostics, failures in the system can be identified remotely, eliminating the need to travel to the machine, saving both time and money. The web server lets the operator view diagnostic faults and upgrade firmware over the web– simplifying start up, increasing availability and productivity without the need for additional tools or software. Additionally, actions can be taken within the application feeding off of the diagnostic information. It is simple to prioritize service trips as critical or routine maintenance without stepping out of the control room.

Plug and Play Installation

Consistent I/O cabling interfaces make installation faster and more reliable. Colorkeyed connectors allow for fewer cabling errors and noticeably shorter installation times. Better still, no tools are required for installation or removal of I/O wiring connectors, saving time and effort. Entire machine modules can be cabled and transferred into production through a streamlined commissioning process. Bulk swing-arm kits are available to enable cable pre-assembly, offloading repetitive tasks for your team during panel assembly. A single row connection level facilitates wiring, installation, and service. Separate power supplies for inputs and outputs reduce the number of power feed modules needed and save space; additionally, specific sections can be activated or deactivated without affecting production thanks to the independence of the input and output power busses.

High Availability

With the PNS101 network adapter, RSTi-EP supports PROFINET System Redundancy (PNSR). This enables synchronized independent controllers to service the I/O and transition from active to back-up controller without interruption. With controllers and processes resilient from physical disruption, you can consider unplanned downtime a thing of the past.

EMERSON™

Network Adapter

I/O Module

Ordering Information

Part No.	Module Description
Network Adapters	
EPXPNS001	PROFINET IRT Network Adapter, 2 Cu RJ45 Ports, 1024 bytes (Input + Output)
EPXPNS101	PROFINET System Redundancy Network Adapter, 2 Cu RJ45 Ports, 1024 bytes (Input + Output)
EPXEIP001	EtherNet/IP Network Adapter, 2 Cu RJ45 Ports, 1024 bytes (Input + Output)
EPXETC001	EtherCAT Network Adapter, 2 Cu RJ45 Ports, 1024 bytes (Input + Output)
EPXMBE001	Modbus TCP Network Adapter, 2 Cu RJ45 Ports, 2048 bytes (Input + Output)
EPXMBE101	Modbus TCP Network Adapters, 2 Cu RJ45 Ports, 2048 bytes (Input +Output)
EPXPBS001	PROFIBUS DP-V1 Network Adapter
Digital Inputs	
EP-1214	4 Points, Positive Logic 24VDC, 2,3, or 4 Wire
EP-1218	8 Points, Positive Logic, 24VDC 2 Wire
EP-125F	16 Points, Positive Logic, 24VDC, 1 Wire
EP-12F4	4 Points, Positive Logic 24VDC, 2,3, or 4 Wire, Time stamp
EP-1318	8 Points, Positive Logic, 24VDC 3 Wire
EP-153F	16 Points, Negative Logic, 24VDC, 0.5A
EP-1804	4 Points 110/230 VAC (65 – 277 VAC), 2 Wire,
EP-1901	1 Safe Feed-Input, 24 VDC
EP-1902	2 Safe Feed-Inputs, 24 VDC
EP-1922	2 Safe Feed-Inputs, 24 VDC, Programmable Delay

Part No.	Module Description
Digital Outputs	
EP-2214	4 Points, Positive Logic 24VDC, 0.5A, 2,3, or 4 Wire
EP-2218	8 Points, Positive Logic, 24VDC, 0.5A, 2 Wire
EP-225F	16 Points, Positive Logic, 24VDC, 0.5A, 1 Wire
EP-2614	4 Points, Positive Logic 24VDC, 2.0A, 2,3, or 4 Wire
EP-2634	4 Points, Positive/Negative Logic 24VDC, 2.0A, 2,3, or 4 Wire
EP-2714	4 Points, Positive Logic, 24 - 220 VDC/VAC, 6A, 2 Wire
EP-2814	4 Points, Positive Logic, 230 VAC, 1A
EP-291F	16 Points, Negative Logic, 24VDC, 0.5A, 1 Wire
Analog Inputs	
EP-1813	8 Channels, 16 Bytes Input, 16 Bytes Output Power Measurement Module
EP-3124	4 Channels Voltage/Current 12 Bits 2, 3, or 4 Wire
EP-3164	4 Channels Voltage/Current 16 Bits 2, 3, or 4 Wire
EP-3264	4 Channels Voltage/Current 16 Bits with Diagnostics 2, 3, or 4 Wire
EP-3368	8 Channels Current 16 Bits 2, 3, or 4 Wire– requires HD Connectors (EP-8360
EP-3468	8 Channels Current 16 Bits 2, 3, or 4 Wire, Channel Diagnostic– requires HD Connectors (EP-8360
EP-3664	4 Channels Voltage/Current 16 Bits with Diagnostics 2, 3, or 4 Wire
EP-3704	4 Channels RTD 16 Bits with Diagnostics 2, 3, or 4 Wire
EP-3804	4 Channels TC 16 Bits with Diagnostics 2, 3, or 4 Wire
Analog Outputs	
EP-4164	4 Channels Voltage/Current 16 Bits 2, 3, or 4 Wire
EP-4264	4 Channels Voltage/Current 16 Bits with Diagnostics 2, 3, or 4 Wire
Special Function Modules	
EP-5111	1 Channel High Speed Counter, AB 100 kHz 1 DO 24VDC, 0.5A
EP-5112	2 Channel High Speed Counter, AB 100 kHz
EP-5212	2 Channel Frequency Measurement, 100 kHz
EP-5261	1 Channel Serial Communications, 232, 422, 485
EP-5311	SSI Encoder, BCD or Gray-Code Format, 5/24 VDC
EP-5324	4 Channels IO Link Communication Module, 24VDC, 0.5A
EP-5422	2 Channels PWM Output, Positive Logic, 24VDC, 2.0 A
EP-5442	2 Channels PWM Output, Positive Logic, 24VDC, 0.5 A