

High Availability

Eliminate process interruptions with PACSystems RX3i I/O. Beyond just the high performance RX3i offers in simplex configurations, high availability configurations are also possible for maximum reliability. Both Ethernet Global Data (EGD) and PROFINET System Redundancy (PNSR) are supported. With gigabit speed and bumpless switchover, choosing RX3i high availability will prevent unexpected failure and costly downtime.



Rugged Connector Terminals

In the RX3i family all I/O modules have removal terminal blocks for easy commissioning and maintenance. This focus on ease of use is extended with the range of supported wire gauges. Depending on the Terminal block type chosen, the wire gauge ranges from 0.081mm² - 1.5mm² (28 - 14AWG) solid or stranded wire.

Spring style and box style modules are also both available for your preferred connection method. Terminal Block Quick Connect (TBQC) and positive retention are supported on both low density and high density terminal blocks to ensure confidence in wiring stability and a consistent commissioning experience.

Specifications

Mounting Format

- Panel Mount
- Rack Mount

Network Interfaces

- PROFINET
- Modbus/TCP
- Ethernet Global Data (EGD)
- Control Memory Exchange (CMX)
- PROFIBUS DP

Gateways / Bridges

- Serial Communications
- Modbus/RTU
- Modbus/TCP
- HART
- GENIUS
- DNP3 Serial/TCP

- IEC-61850
- IEC-104
- Reflective Memory
- PROFIBUS/Master
- CANOpen

Network Redundancy

- Media Redundancy Protocol (MRP)
- Dual LAN

System Redundancy

- PROFINET System Redundancy (PNSR)
- Ethernet Global Data (EGD)

I/O Redundancy

- Via Application Code

Media Support

- Copper
- SM Fiber
- MM Fiber

PACSystems RX3i I/O

Media Connector

- 2x RJ45 and 2x SFP

I/O Types

- Digital
- Voltage
- TL
- Relay
- Analog
- Voltage/Current
- RTD
- Thermocouple

Specialty Modules

- Pulse Test (24, 125 Vdc)
- High Speed Counters
- Pulse With Modulation (PWM)
- Pulse Output
- Power Sync & Measure
- Strain Gauge
- SoE Inputs (application)

Isolation

- Galvanic Isolation
- DI, DO, AI, AO

Hot Swap

- Yes

Environmentals

- IP20
- 0°C to 60°C
- -40°C to 60°C options
- Conformal coat options

Agency Approvals

- UL
- UL HazLoc C1D2
- CE
- ATEX Zone 1

Marine (only select models)

- ABS
- BV
- DNV GL

Channel Density

- 2 - 32 points

Max Wire Gauge

- 12 (low density)
- 14 (high density)

Max I/O per Drop

- 448

I/O Family Comparison



Product	PACSystems RSTI-EP	VersaPoint	VersaMax Modular	RSTI-OM	PAC8000	PACSystems RX3i
Type	Distributed Slice	Distributed Slice	Chassis Based	On-machine Distributed	Intrinsically Safe	Chassis Based
Network Interfaces	PROFINET P PROFIBUS DP Modbus/TCP EtherCAT Ethernet/IP	PROFINET PROFIBUS DP Modbus/TCP DeviceNet	PROFIBUS DP PROFIBUS DP Modbus/TCP EGD DeviceNet GENIUS	PROFINET Modbus TCP OPC UA MQTT (simultaneous on same device)	PROFINET Modbus/TCP	PROFINET PROFIBUS DP Modbus/TCP EGD CMX
System Redundancy	PROFINET PROFIBUS DP	-	PNSR, EGD or GENIUS	-	PNSR or Modbus/TCP	PNSR or EGD
Hot Swap	Yes	Yes	Yes	Yes	Yes	Yes
Environmentals	IP20 -20°C to 60°C	IP20 -20°C to 55°C	IP20 0°C to 60°C -40°C to 60°C (opt.) Conformal Coat (opt.)	IP67 -20°C to 60°C	IP20 -40°C to 70°C Conformal Coat	IP20 0°C to 60°C -40°C to 60°C (opt.) Conformal Coat (opt.)
Agency Approvals	PROFINET PROFIBUS DP	UL UL HazLoc C1D2 CE ATEX Zone 2 TUVSIL3	UL UL HazLoc C1D2 CE ATEX Zone 2	UL UL HazLoc C1D2 CE ATEX Zone 2	UL UL HazLoc C1D1 CE ATEX Zone 1 Intrinsically Safe	UL UL HazLoc C1D2 CE ATEX Zone2
Marine	DNV GL	-	ABS, BV, DNVGL, LR (only select models)	-	LR	ABS, BV, DNVGL (only select models)
I/O Module Size (W x H x D)	11.5 x 120 x 76mm	12 x 120 x 70mm	66.8 x 163.5 x 70mm	65 x 212 x 29.8mm	42 x 110 x 106mm	34 x 145 x 140mm
Typical Applications	Machine Control Light Process Control General Automation	Functional Safety	Machine and Light Process Control General Automation	On-machine Cabinetless I/O	Harsh Environment Process Control	Complex Machine Process Control Motion Control General Automation
Level of Diagnostics	Better	Best	Better	Better	Best	Best

Ordering Information

Part Number*	Description
Power Supplies	
IC695PSA040	Power Supply 120/240 Vac 125 Vdc 40W
IC695PSD040	Power Supply 24 Vdc 40W
IC695PSD140	Power Supply 24 Vdc 40W Multi-purpose
IC695PSA140	Power Supply 120/240 Vac 125 Vdc 40W Multi-Purpose
IC694PWR321	Power Supply 120/240 Vac 125 Vdc 30W Serial Expansion
IC694PWR330	Power Supply 120/240 Vac 125 Vdc 30W High Capacity Serial Expansion
IC694PWR331	Power Supply 24 Vdc 30W High Capacity Serial Expansion
IC695PSD180	Power Supply 24 Vdc 80W Multi-purpose

*add 'LT' suffix for low temp version, add 'CA' suffix for conformal coated version (not applicable for all modules)