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# PACSystems™ RX7i Controller

Built on a standard embedded open architecture, the new PACSystems RX7i is the first member of the ground-breaking PACSystems family of programmable automation controllers (PACs). Like the rest of the family, the PACSystems RX7i features a single control engine and universal programming environment to provide application portability across multiple hardware platforms, creating a seamless migration path for GE Fanuc customers and delivering a true convergence of control choices. Designed to address mid- to high-end applications for OEMs, integrators, and end users, the RX7i is ideally suited for integrated solutions that require open architecture, large memory, distributed I/O, and high performance. The PACSystems RX7i system addresses your major business issues (performance, productivity, openness, flexibility and migration) to help you improve your overall profitability.

**Performance – Delivering on the Demands of Your Most Advanced Applications**

- Pentium® III CPUs (300mHz and 700mHz)
- VME64 Backplane provides up to four times the bandwidth of existing Series 90™-70 systems
- 10/100 Ethernet built into the CPU, with easy cabling RJ-45 dual ports connected through an auto-sensing switch — no need for additional switches or hubs rack to rack
- 10MB memory for fast execution, storage of the complete program with all documentation (including Excel, Word, PDF and DXF files) — all in one CPU
- Powerful instruction set supports user-defined function blocks for high speed algorithms (C programming)
- High capacity power supplies (100W and 350W) to reduce the requirement for an external supply

**Productivity – Maximizing Efficiency of Design and Operation**

- One common environment for configuring, programming, commissioning, and maintaining your application with CIMPLICITY® Machine Edition
- One tool for Control, View and Motion program development
- System Management with Manager provides Version Control, Security Access, and Audit Trail

**Openness – Optimizing the Benefits of Market Technology**

- Supports VME third party boards
- Connectivity to globally accepted communications: Ethernet, GENIUS®, Profibus™ and DeviceNet™
- Additional communications options with RS-232 and RS-485 ports
- Web server access with user-defined pages

**Flexibility – Leveraging Software and Hardware Platforms for Multiple Generations**

- Applications based on IEC 61131 international standards
- Mix languages within the application
- Supports existing Series 90-70 I/O and new I/O in same rack
- Scalability for future generations

**Migration – Protecting Intellectual Property and Application Investment**

- Same overall controller footprint
- Supports existing Series 90-70 modules, expansion racks, VME modules and GENIUS networks — protecting your hardware investment
- Seamless conversion of Series 90-70 programs for complete protection of application investment

imagination at work

## *Ordering Information*

| | Part Number | Description | Part Number | Description |
|---|---|---|---|---|
| Controllers | IC698CPE010 | RX7i VME 300Mhz CPU with Embedded 10/100 Ethernet | IC698CPE020 | RX7i VME 700Mhz CPU with Embedded 10/100 Ethernet |
| Controller Racks | IC698CHS017 | RX7i 17 VME Slot Rack, Rear Mount | IC698CHS117 | RX7i 17 VME Slot Rack, Front Mount |
| Controller Power Supplies | IC698PSA100 | RX7i PLC Power Supply, 85 to 264 VAC at 47 to 63 Hz Input, 100 Watt output | IC698PSA350 | RX7i PLC Power Supply, 85 to 264 VAC at 47 to 63 Hz Input, 350 Watt output |
| Expansion Racks | IC697CHS750 | Rack, 5 Slots, Rear Mount | IC697CHS782 | Integrators Rack, 17 Slots, Rear Mount |
| | IC697CHS790 | Rack, 9 Slots, Rear Mount | IC697CHS783 | Integrators Rack, 17 Slots, Front Mount |
| | IC697CHS791 | Rack, 9 Slots, Front Mount | | |
| Expansion Power Supplies | IC697PWR710 | Power Supply, 120/240 VAC, 125VDC, 50 Watts | IC697PWR724 | Power Supply, 24 VDC, 90 Watts |
| | IC697PWR711 | Power Supply, 120/240 VAC,125VDC, 100 Watts | IC697PWR748 | Power Supply, 48 VDC, 90 Watts |
| Discrete Inputs | IC697MDL240 | 120 VAC Isolated Input (16 Points) | IC697MDL640 | 125 VDC Input (16 Points) |
| | IC697MDL241 | 240 VAC Isolated Input (16 Points) | IC697MDL651 | 5 VDC (TTL) Input (32 Points) |
| | IC697MDL250 | 120 VAC Input (32 Points) | IC697MDL652 | 12 VDC Input, Positive/Negative Logic (32 Points) |
| | IC697MDL251 | 120 VAC Input (16 Points) Non-isolated | IC697MDL653 | 24 VDC Input, Positive/Negative Logic (32 Points) |
| | IC697MDL252 | 12 VAC Input (32 Points) | IC697MDL654 | 48 VDC Input, Positive/Negative Logic (32 Points) |
| | IC697MDL253 | 24 VAC Input (32 Points) | IC697MDL671 | Interrupt Input Module, 14 points |
| | IC697MDL254 | 48 VAC Input (32 Points) | IC697VDD100 | 24VDC Source, 64 point, can be configured for SOE (Sequence Of Event) recording. |
| Discrete Outputs | IC697MDL340 | 120 VAC Output, 2 Amp (16 Points) | IC697MDL740 | 24/48 VDC Output, 2 Amp, Positive Logic (16 Points) |
| | IC697MDL341 | 120/240 VAC Isolated Output, 2 Amp (12 Points) | IC697MDL750 | 24/48 VDC Output, 0.5 Amp, Positive Logic (32 Points) |
| | IC697MDL350 | 120 VAC Output, 0.5 Amp (32 Points) | IC697MDL752 | 12 VDC Output, 0.5 Amp, Positive Logic (32 Points) |
| | IC697MDL940 | Relay Output, Signal, 2 Amp (16 Points) | IC697MDL753 | 5/48 VDC Output, 0.5 Amp, Negative Logic (32 Points) |
| | IC697VDR150 | Relay Output, Non-latching, 2 Amp (32 point) | IC697VDQ120 | Digital Output, 64 point, 24VDC at 500 mA, Sink or Source (64 point) |
| | IC697VDR151 | Relay Output, Non-latching (64 Points) | | |
| Analog Inputs | IC697ALG230 | Voltage/Current, 8 Channels | IC697VAL216 | 0 to 5VDC, 0 to 10VDC, +/- 2.5VDC, +/- 5VDC, +/- 10VDC, 16 Channel, Jumper Selectable 16-bit Resolution |
| | IC697ALG440 | Analog Input Expander, Current, 16 Channels. Used with IC697ALG230. | IC697VAL232 | 0 to 5VDC, 0 to 10VDC, +/- 2.5VDC, +/- 5VDC, +/- 10VDC, 32 Channel, Jumper Selectable 16-bit Resolution |
| | IC697ALG441 | Analog Input Expander, Voltage, 16 Channels. Used with IC697ALG230. | IC697VAL264 | 0 to 5VDC, 0 to 10VDC, +/- 2.5VDC, +/- 5VDC, +/- 10VDC, 64 Channel, Jumper Selectable 16-bit Resolution |
| | IC697VAL132 | 0 - 20ma, 12-bit, 32 Channel Single Ended or 16 Channel Differential | IC697VRD008 | RTD/Strain Bridge Module. Supports 8 channels of 100 ohm platinum RTD or +/- 30mV and +/-100mV voltage inputs. 12 bits plus sign. |
| | IC697VAL134 | 0 to 10VDC, +/-5VDC, +/- 10VDC, 32 Channel Single Ended or 16 Channel Differential | | |
| Analog Outputs | IC697ALG320 | Analog Output, Voltage/Current, 4 Channels | IC697VAL308 | Analog Output, Isolated, 8 channel, 12 bit, Voltage - bipolar +/-2.5VDC, +/-5VDC, +/- 10VDC |
| | IC697VAL301 | Analog Output, 12 bit, 32 channel 0 - 10VDC, 0 - 5VDC,+/-2.5VDC, +/-5VDC, +/- 10VDC | IC697VAL324 | Analog Output, Isolated, 4 channel, 12 bit, Voltage - polar 0 - 10VDC, 0 - 5VDC |
| | IC697VAL306 | Analog Output, 12bit, 16 channel, non Isolated, Voltage/Current jumper selectable voltage 0 - 10VDC, 0 - 5VDC,+/-2.5VDC, +/-5VDC, +/- 10VDC or Current 0 to 20mA, 4 to 20mA, and 5 to 25 mA. | IC697VAL314 | Analog Output, Isolated, 4 channel, 12 bit, Current - 4 to 20 mA. |
| | IC697VAL328 | Analog Output, Isolated, 8 channel, 12 bit, Voltage - polar 0 - 10VDC, 0 - 5VDC | IC697VAL304 | Analog Output, Isolated, 4 channel, 12 bit, Voltage - bipolar +/-2.5VDC, +/-5VDC, +/- 10VDC |
| | IC697VAL318 | Analog Output, Isolated, 8 channel, 12 bit, Current - 4 to 20 mA | IC697VAL348 | Analog Output, 8 channel, 16bit, Voltage bipolar 0 to +/-10VDC |
| Communication Modules | IC698ETM001 | RX7i Ethernet Module 10/100, Auto Sensing, Auto Switching | IC697VRM015 | Reflective Memory with 256Kbyte memory and 512 transfer FIFO. 170 Mbaud fiber optic network. Supports up to 256 nodes over 2,000 meters. |
| | IC697CMM711 | Serial Communications Coprocessor, CCM, RTU, SNP, and SNPx Protocols | IC697RCM711 | Redundancy Communications Module (Hot Standby) |
| I/O Interface Modules | IC697BEM711 | Bus Receiver (Required for Each Local Expansion Rack) | IC697BEM731 | Series 90-70 Genius I/O Bus Controller |
| | IC697BEM713 | Bus Transmitter | IC697BEM733 | Series 90-70 Genius Remote I/O Scanner |
| Special Function Modules | IC697HSC700 | High Speed Counter | IC697PCM711 | Programmable Coprocessor |
| Accessories | IC698ACC701 | Lithium Battery pack | | |


### *GE Fanuc Automation Information Centers*

***USA and the Americas: 1-800-GE FANUC***
***or (434) 978-5100***

***Europe, Middle East and Africa: (352) 727979-1***

***Asia Pacific: 86-21-3222-4555***


### *Additional Resources*

For detailed technical specifications and product ordering information, please visit the GE Fanuc website at:

***www.gefanuc.com***


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