GE Fanuc Automation

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® CPUs for your every need, from Celeron 300Mhz to M Class 1.8Ghz
- 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
- Up to 64MB memory for fast execution, storage of the complete program with all documentation (including Excel, Word, PDF and DXF files) — all in one CPU
- Object Oriented programming through IEC languages including C for fast executing, standards based applications
- Integration of Control Memory Xchange, a high speed global memory over a fiber network — like having a networked drive everyone can see and share
- 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 Proficy* Machine Edition
- One tool for Control, View and Motion program development
- System Management with Manager provides Version Control, Security Access, and Audit Trail
- Embed Proficy Historian or other tools typically requiring a separate computer for maximum productivity

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

- High availability with high speed bumpless transfer using Control Memory Exchange (reflective memory)
- Dual or Single LAN, Ethernet or GENIUS, for redundant or simplex control systems
- Mix languages within the application
- Supports existing Series 90-70 I/O and new I/O in same rack

Migration – Protecting Intellectual Property and Application Investment

- Same overall controller footprint as Series 90-70
- 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
- Upgrade your Series Six system, connecting directly to the I/O and converting the existing program into the PACSystems easily
- With PACSystems investment, never worry about being stuck with old hardware again. The open, layered, portable engine allows continuous migration as technology changes.

GE FANUC

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
	IC698CRE020	RX7i VME 700Mhz Redundant CPU with Embedded 10/100 Ethernet	IC698CPE030	RX7i VME M Class 600Mhz CPU with Embedded 10/100 Ethernet
	IC698CPE040	RX7i VME M Class 1.8Ghz CPU with Embedded 10/100 Ethernet	IC698CRE030	RX7i VME M Class 600Mhz Redundant CPU with Embedded 10/100 Ethernet
	IC698CRE040	RX7i VME M Class 1.8Ghz Redundant CPU with Embedded 10/100 Ethernet		
Controller Racks	IC698CHS009	RX7i 9 VME Slot Rack, Rear Mount	IC698CHS117	RX7i 18 VME Slot Rack, Front Mount
	IC698CHS017	RX7i 18 VME Slot Rack, Rear Mount	IC698CHS217	RX7i 17 VME Slot Rack, Rear Mount, Rear I/O access
	IC698CHS109	RX7i 9 VME Slot Rack, Panel 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
	IC698PSD300	RX7i Power Supply, 18-30 VDC, 300 Watts		
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, 125 VDC, 50 Watts	IC697PWR724	Power Supply, 24 VDC, 90 Watts
	IC697PWR711	Power Supply, 120/240 VAC, 125 VDC, 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	24 VDC 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 Points)	IC697VDQ120	Digital Output, 64 point, 24 VDC 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 5 VDC, 0 to 10 VDC, +/- 2.5 VDC, +/- 5 VDC, +/- 10 VDC, 16 Channel, Jumper Selectable 16-bit Resolution
	IC697ALG440	Analog Input Expander, Current, 16 Channels. Used with IC697ALG230.	IC697VAL232	0 to 5 VDC, 0 to 10 VDC, +/- 2.5 VDC, +/- 5 VDC, +/- 10 VDC, 32 Channel, Jumper Selectable 16-bit Resolution
	IC697ALG441	Analog Input Expander, Voltage, 16 Channels. Used with IC697ALG230.	IC697VAL264	0 to 5 VDC, 0 to 10 VDC, +/- 2.5 VDC, +/- 5 VDC, +/- 10 VDC, 64 Channel, Jumper Selectable 16-bit Resolution
	IC697VAL132	0 to 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 10 VDC, +/-5 VDC, +/- 10 VDC, 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 +/-2.5 VDC, +/-5 VDC, +/- 10 VDC
	IC697VAL301	Analog Output, 12 bit, 32 channel 0 to 10 VDC, 0 to 5 VDC, +/-2.5 VDC, +/-5 VDC, +/- 10 VDC	IC697VAL324	Analog Output, Isolated, 4 channel, 12 bit, Voltage - polar 0 to 10 VDC, 0 to 5 VDC
	IC697VAL306	Analog Output, 12bit, 16 channel, non Isolated, Voltage/Current jumper selectable voltage 0 to 10 VDC, 0 to 5 VDC, +/-2.5 VDC, +/-5 VDC, +/- 10 VDC 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 to 10 VDC, 0 to 5 VDC	IC697VAL304	Analog Output, Isolated, 4 channel, 12 bit, Voltage - bipolar +/-2.5 VDC, +/-5 VDC, +/- 10 VDC
	IC697VAL318	Analog Output, Isolated, 8 channel, 12 bit, Current - 4 to 20 mA	IC697VAL348	Analog Output, 8 channel, 16bit, Voltage bipolar 0 to +/-10 VDC
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)
	IC698RMX016	RX7i Redundancy Memory Exchange Module, 16 Mbytes Reflective Memory	IC698CMX016	RX7i Control Memory Exchange Module, 16 Mbytes Reflective Memory
I/O Interface Modules	IC687BEM731	VME Single Slot Bus Controller	IC697BEM731	Genius I/O Bus Controller
	IC697BEM711	Bus Receiver (Required for Each Local Expansion Rack)	IC697BEM733	Genius Remote I/O Scanner
	IC697BEM713	Bus Transmitter		
Special Function Modules	IC697HSC700	High Speed Counter	IC697PCM711	Programmable Coprocessor
	IC697VHD001	Single-slot VMEbus Hard Disk Module	IC697VSC096	Single-slot Celeron Socket 370 Processor-based VMEbus Single-board Computer
Accessories	IC698ACC701	Lithium Battery pack		

GE Fanuc Automation Information Centers

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

Additional Resources

For more information, please visit the GE Fanuc web site at:

www.gefanuc.com

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