GE Fanuc Automation

PACSystems™ RX3i Controller

The new PACSystems™ RX3i controller is the latest addition to the innovative PACSystems family of programmable automation controllers (PACs). Like the rest of the family, the PACSystems RX3i features a single control engine and universal programming environment to provide application portability across multiple hardware platforms and deliver a true convergence of control choices. Using the same control engine as the PACSystems RX7i, the new PACSystems RX3i offers a high level of automation functionality in a compact, cost-effective package. The PACSystems portable control engine provides high performance on several different platforms, allowing OEMs and end users with application variability to choose the exact control system hardware that best suits their needs.

PACSystems RX3i Benefits:

The innovative technology of the PACSystems RX3i enables users to:

- Address major engineering and business issues, such as higher productivity and tighter cost control
- Boost the overall performance of their automation systems
- Reduce engineering and commissioning costs
- Easily integrate new technology into installed base systems
- Significantly decrease concerns regarding short- and long-term migration and platform longevity

PACSystems RX3i Features:

- High-speed processor and patented technology for faster throughput without information bottlenecks
- Dual backplane bus support per module slot:
  - High-speed, PCI-based for fast throughput of new advanced I/O
  - Serial backplane for easy migration of existing Series 90-30 I/O
- Intel 300 mHz CPU for advanced programming and performance with 10Mbytes memory
- Memory for ladder logic documentation and machine documentation (Word, Excel, PDF, CAD and other files) in the controller to reduce downtime and improve trouble shooting.
- Open communications support including Ethernet, GENIUS®, Profibus™, DeviceNet™ and serial
- Supports high density discrete I/O, universal analog (TC, RTD, Strain Gauge, Voltage and Current configurable per channel), isolated analog, high-density analog, high-speed counter, and motion modules
- Expanded I/O offering with extended features for faster processing, advanced diagnostics and a variety of configurable interrupts
- Hot insertion for both new and migrated modules
- Isolated 24 VDC terminal for I/O modules and a grounding bar that reduces user wiring

Protecting Users' Installed Investment:

Like the rest of the PACSystems family, the PACSystems RX3i is designed for easy integration with installed hardware systems

- Seamless migration path for GE Fanuc customers
- Protection for each user's investment in both I/O and applications development
- Power for users of all control systems to leverage as much of their installed automation investment as possible

Universal Development Environment:

The common software platform across all of GE Fanuc controllers, award-winning Proficy™ Machine Edition™ software provides the universal engineering development environment for programming, configuration and diagnostics for the entire PACSystems family.

- Programming tools such as tag-based programming, a library of reusable code and a test edit mode for improved online troubleshooting
- User-friendly environment that can increase design flexibility and improve engineering efficiency and productivity

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Ordering Information

	Part Number	Description	Part Number	Description
Controllers	IC695CPU310*	300Mhz CPU, 10Mbytes of memory, two serial ports (requires 2 slots)	IC695CMU310	Redundant High Availability 300Mhz CPU, 10Mbytes of memory, two serial ports
Universal Controller and I/O Base	IC695CHS012	Universal Backplane, 12 Universal Slots	IC695CHS016	Universal Backplane, 16 Universal Slots
Expansion Bases	IC693CHS393	Base, Remote Expansion, 10 Slots (700 ft.)	IC694CHS398	Base, Expansion, 5 Slots
	IC694CHS392	Base, Expansion, 10 Slots	IC693CHS399	Base, Remote Expansion, 5 Slots (700 ft.)
Universal Base Power Supplies	IC695PSA140	Multipurpose Power Supply, 120/240 VAC, 40 watts	IC695PSD140	Multipurpose Power Supply, 24 VDC, 40 watts
	IC695PSA040*	Power Supply, AC, 40 Watts (requires 2 slots)	IC695PSD040*	Power Supply, 24 VDC, 40 Watts (requires 1 slot)
Remote Base Power Supplies	IC693PWR332	Power Supply, 12 VDC, Standard, 30 Watts (Use with Expansion Base)	IC693PWR328	Power Supply, 48 VDC, Standard, 30 Watts (Use with Expansion Base)
Expansion Power Supplies	IC694PWR321	Power Supply, 120/240 VAC, 125 VDC, Standard, 30 Watts (Use with Expansion Base)	IC693ACC340	Redundant Power Supply Base (RPSB) with 0.1 meter cable to connect to Power Supply Adapter Module (Use with Expansion Base)
	IC694PWR330	Power Supply, 120/240 VAC, 125 VDC, High Capacity, 30 Watts (Use with Expansion Base)	IC693ACC341	Redundant Power Supply Base with 0.5 meter cable to connect to Power Supply Adapter Module (Use with Expansion Base)
	IC694PWR331	Power Supply, 24 VDC, High Capacity, 30 Watts (Use with Expansion Base)	IC693ACC350	Redundant Power Supply Adapter (RPSA) Module. The RPSA replaces the power supply on a CPU base or expansion base and connects to a Redundant Power Supply Base. (Use with Expansion Base)
Discrete Input Modules	IC694MDL230	120 VAC Isolated Input (8 Points)	IC694MDL634	24 VDC Input, Neg/Pos Logic (8 Points)
	IC694MDL231	240 VAC Isolated Input (8 Points)	IC694MDL645	24 VDC Input, Neg/Pos Logic (16 Points)
	IC694MDL240	120 VAC Input (16 Points)	IC694MDL646	24 VDC Input, Neg/Pos Logic, 1 msec Filter (16 Points)
	IC694MDL241	24 VAC/VDC Input (16 Points)	IC694MDL654	5/12 VDC (TTL) Input, Neg/Pos Logic, (32 Points)
	IC694MDL250	120 VAC Isolated Input (16 Points)	IC694MDL655	24 VDC Input, Neg/Pos Logic, 1 ms, (32 Points)
	IC694MDL260	120 VAC Input (32 Points)**	IC694MDL660	24 VDC Input (32 Points)**
	IC694MDL632	125 VDC Input (8 Points)	IC694ACC300	Input Simulator Module (8 Points)
Discrete Output Modules	IC694MDL310	120 VAC Output, 0.5 Amp (12 Points)	IC694MDL740	12/24 VDC Output, 0.5 Amp, Positive Logic (16 Points)
	IC694MDL330	120/240 VAC Output, 2 Amp (8 Points)	IC694MDL741	12/24 VDC Output, 0.5 Amp, Negative Logic (16 Points)
	IC694MDL340	120 VAC Output, 0.5 Amp (16 Points)	IC694MDL742	12/24 VDC Output, 1 Amp, Positive Logic (16 Points), Fused
	IC694MDL350	120/240 VAC Output, 2 Amp (16 Points)	IC694MDL752	5/12/24 VDC (TTL) Output, Negative Logic, (32 Points)
	IC694MDL390	120/240 VAC Isolated Output, 2 Amp (5 Points)	IC694MDL753	12/24 VDC Output, Positive Logic (32 Points)
	IC694MDL732	12/24 VDC Output, 0.5 Amp, Positive Logic (8 Points)	IC694MDL754	24 VDC Output w/ ESCP, 0.75 Amp (32 Points)**
	IC694MDL734	125 VDC Output (6 Points)		
Relay Output Modules	IC694MDL930	Relay Output, Isolated, 4 Amp (8 Points)	IC694MDL940	Relay Output, 2 Amp (16 Points)
	IC694MDL931	Relay Output, 8 Amp Form B/C contacts, Isolated in 2 Groups of 4 (8 Points)		
Analog Input Modules	IC694ALG220	Analog Input, Voltage/Current, 4 Channels	IC695ALG608	Analog Input, Voltage/Current, Configurable, 8 Channels
	IC694ALG221	Analog Input, Current, 4 Channels	IC695ALG616	Analog Input, Voltage/Current, Configurable, 16 Channels
	IC694ALG222	Analog Input, Voltage 16 Single/8 Differential Channels	IC695ALG628	Analog Input with HART Communications, Voltage/Current, Configurable, 8 Channels
	IC694ALG223	Analog Input, Current, 16 Single Channels	IC695ALG626	Analog Input with HART Communications, Voltage/Current, Configurable, 16 Channels
	IC695ALG600**	Analog Input, Universal, Voltage/Current/RTD/TC/Strain Gauge, 8 Channels*		
Analog Output Modules	IC694ALG390	Analog Output, Voltage (2 Channels)	IC695ALG704	Analog Output, Voltage/Current (4 Channels)
	IC694ALG391	Analog Output, Current (2 Channels)	IC695ALG708	Analog Output, Voltage/Current (8 Channels)
	IC694ALG392	High Density Analog Output (8 Channels)	IC695ALG728	Analog Output with HART Communications, Voltage/Current (8 Channels)
Mixed Analog Modules	IC694ALG442	Analog Combo Module (4IN/2OUT)		
Motion Modules	IC693APU305	I/O Processor Module	IC694DSM314	Digital Servo Motion Controller, 1-2 Axis of Digital Servo or 1-4 Axis Analog Servo
	IC694APU300	High Speed Counter (HSC)	IC694DSM324	Digital Servo Motion Controller, 4-Axis (Fiber Optic Interface to Amplifiers)
Communications Modules	IC694BEM331	Genius Bus Controller (Supports I/O and Datagrams)	IC695PBS301*	Profibus Slave Module
	IC694DNM200	DeviceNet Master Module	IC695ETM001*	Ethernet Module, 10/100 base T/TX ports (requires 1 slot)
	IC695PBM300*	Profibus Master Module		
Expansion Modules	IC695LRE001*	Local Expansion Module (requires no universal slots)	IC693NIU004	Ethernet Remote I/O Interface for IC694CHSxxx Expansion Racks
	IC695NKT001	Ethernet Remote I/O Expansion Kit		
Terminal Blocks	IC694TBB032	High Density Terminal Block Box Style (36 Terminals)	IC694TBS032	High Density Terminal Block Spring Style (36 Terminals)
Accessories	IC693ACC302	High Capacity Battery Pack (mounts externally)	IC693CBL312	Rack to Rack Expansion Cable, 0.15 Meters, Shielded
	IC693CBL300	Rack to Rack Expansion Cable, 1 Meter	IC693CBL313	Rack to Rack Expansion Cable, 8 Meters
	IC693CBL301	Rack to Rack Expansion Cable, 2 Meters	IC693CBL314	Rack to Rack Expansion Cable, 15 Meters, Shielded
	IC693CBL302	Rack to Rack Expansion Cable, 15 Meters	IC694ACC310	Blank Filler Module
Programming and Troubleshooting Tools	IC646MPP001	Logic Developer - PLC Professional	IC646MPH101	Logic Developer PDA Software Tool with Cable Adapter

Availability varies per module, please check with your GE Fanuc representative for release dates and availability.
*Compatible with IC695CHS 012/016 base only.
**Requires either Box Style (IC694TBB032) or Spring Clamp (IC694TBS032) high density terminal block.

GE Fanuc Automation Information Centers

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352 727979 1

Additional Resources

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

www.gefanuc.com

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