

INDUSTRIAL AUTOMATION PRODUCT

IC695CPE305

PACSystems RX3i CPE305 Controller

GE IC695CPE305 is a PACSystems RX3i programmable automation controller. It executes the machine or process-control program and exchanges controller, I/O and supervisory data over its embedded Ethernet, serial and USB interfaces.

IDENTITY	VERIFIED VALUE
Manufacturer	GE
System family	PACSystems RX3i Controllers
Part number	IC695CPE305
Country	USA
HS code	8537101190

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Technical Specifications

Technical values below are limited to the named GE product record.

PARAMETER	TECHNICAL VALUE
Controller platform	PACSystems RX3i
Form factor	Backplane
User memory	6 MB
Discrete I/O capacity	32k bits
Analog I/O capacity	32k words
Energy pack	Included
Ethernet interface	Two-port 10/100/1000 switch
Ethernet protocols	SRTP, Modbus TCP/IP, OPC UA, EGD, PROFINET, DNP3, IEC 61850, IEC 104, HART pass-through
Serial protocols	ASCII and Modbus RTU
Remote I/O capacity	255 simplex devices with IC695PNC001
USB interface	1 x USB-A 2.0
Media redundancy	MRP with IC695PNC001
Operating temperature	0 to 60 degC
Marine certifications	ABS, BV, LR, DNV GL

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System Role and Architecture

GE IC695CPE305 is a PACSystems RX3i programmable automation controller. It executes the machine or process-control program and exchanges controller, I/O and supervisory data over its embedded Ethernet, serial and USB interfaces.

FUNCTION 1
Executes deterministic RX3i control logic from a single-slot backplane position

FUNCTION 2
Combines controller, Ethernet switching and serial communication interfaces

FUNCTION 3
Coordinates local and PROFINET remote I/O through an engineered PACSystems project

FUNCTION 4
Retains controller data through the supplied energy-pack power-loss sequence

Matched system components

- compatible IC695 RX3i universal backplane
- approved RX3i power supply and energy pack
- IC695PNC001 when PROFINET I/O or MRP is configured
- PAC Machine Edition project and validated industrial Ethernet topology

SYSTEM INTEGRATION RECORD

INTEGRATION ITEM	DOCUMENTED ROLE
Installed host / carrier	compatible IC695 RX3i universal backplane
Companion hardware	approved RX3i power supply and energy pack
Field connection	IC695PNC001 when PROFINET I/O or MRP is configured
Primary system function	Executes deterministic RX3i control logic from a single-slot backplane position
Controlled acceptance duty	RX3i machine-sequence and interlocking control

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Applications and Engineering Context

RX3i machine-sequence and interlocking control

Executes deterministic RX3i control logic from a single-slot backplane position

Process skids with mixed local and PROFINET remote I/O

Combines controller, Ethernet switching and serial communication interfaces

Supervisory integration through SRTP, Modbus TCP/IP or OPC UA

Coordinates local and PROFINET remote I/O through an engineered PACSystems project

Protocol-gateway duties using IEC, DNP3 or HART pass-through options

Retains controller data through the supplied energy-pack power-loss sequence

TECHNICAL NOTE

Install IC695CPE305 in a qualified RX3i universal backplane and match the backplane hardware revision to the controller firmware. Preserve the PAC Machine Edition project, Ethernet identity, energy-pack connection and remote-I/O configuration before replacement or firmware service.

MODEL-SPECIFIC ACCEPTANCE EVIDENCE

CHECK	ACCEPTANCE CONDITION
Identity	IC695CPE305 / IC695CPE305 recorded
Physical interface	compatible IC695 RX3i universal backplane
Companion check	approved RX3i power supply and energy pack
Functional proof	Executes deterministic RX3i control logic from a single-slot backplane position
Application test	RX3i machine-sequence and interlocking control

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Engineering Precautions

- 1 Confirm the complete IC695CPE305 hardware suffix, firmware revision and approved backplane revision before installation.
- 2 Place the controlled process in the approved maintenance state and isolate rack power before changing the controller.
- 3 Use ESD controls and protect the backplane, Ethernet, serial, USB and energy-pack connectors during handling.
- 4 Record the PAC Machine Edition hardware configuration, controller memory, IP addressing and protocol settings before replacement.
- 5 Verify the energy-pack connection and allow the documented data-retention sequence to complete before removing power.

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
IC695CPE305	PACSystems RX3i CPE305 controller	View IC695CPE305 page
IC695CHS016	RX3i 16-slot universal backplane	View IC695CHS016 page
IC693CMM321	Series 90-30 Ethernet interface	View IC693CMM321 page
IC695ALG600	RX3i universal analog input	View IC695ALG600 page
IS200TRL1YH1BED	GE relay output interface board	View IS200TRL1YH1BED page
MIVII3000E00HI00	GE MIV II voltage and frequency relay	View MIVII3000E00HI00 page
IS215VPROH1BD	GE VPRO turbine protection board	View IS215VPROH1BD page
IC200UDR005-DJ	GE VersaMax micro PLC	View IC200UDR005-DJ page

MANUFACTURER SOURCE RECORD

PACSystems RX3i CPE305 Controller product page and IC695CPE302/IC695CPE305 Important Product Information GFK-3248L; GE PACSystems product record

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