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.

PRODUCT SNAPSHOT

BRAND	FAMILY
GE	PACSystems RX3i Controllers
PART	ORIGIN / HS
IC695CPE305	USA / 8537101190

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PRODUCT OVERVIEW

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.

1. Executes deterministic RX3i control logic from a single-slot backplane position
2. Combines controller, Ethernet switching and serial communication interfaces
3. Coordinates local and PROFINET remote I/O through an engineered PACSystems project
4. Retains controller data through the supplied energy-pack power-loss sequence

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

TECHNICAL DATA

PARAMETER	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

PARAMETER	VALUE
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

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**
IS200TRLYH1BED	GE relay output interface board	**View IS200TRLYH1BED 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**

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

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

PRODUCT 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.
6. Match IC695PNC001 firmware and the engineered MRP or PROFINET topology when remote I/O is configured.
7. Restore fieldbus, OPC UA, EGD and serial channels only after the controller identity and project have been validated.
8. Commission IC695CPE305 with controlled I/O forcing, diagnostics and end-to-end protocol tests before production release.

ENGINEER FAQ

Q1 Does IC695CPE305 match compatible IC695 RX3i universal backplane in a RX3i machine-sequence and interlocking control installation?

Verify the complete IC695CPE305 marking, the documented PACSystems RX3i Controllers position and the installed compatible IC695 RX3i universal backplane before fitting the assembly.

Q2 How should IC695CPE305 be wired when it must executes deterministic rx3i control logic from a single-slot backplane position?

Isolate the circuit, identify every terminal and reproduce the approved polarity, shield and channel assignment for IC695CPE305; then continuity-test the affected path.

Q3 Which PACSystems RX3i Controllers records should be captured before removing IC695CPE305?

Record the as-found wiring, installed position, active configuration and diagnostic state associated with IC695CPE305 before disconnection.

Q4 What controlled test confirms that IC695CPE305 can combines controller, ethernet switching and serial communication interfaces?

Apply the approved field or simulated stimulus, observe the PACSystems RX3i Controllers indication and confirm the intended response without bypassing the normal interlocks.

Q5 Which approved RX3i power supply and energy pack condition should be checked when IC695CPE305 reports an abnormal state?

Check the approved RX3i power supply and energy pack supply, seating and connection first, then compare channel diagnostics with the recorded IC695CPE305 baseline.

Q6 Can IC695CPE305 be moved directly into Process skids with mixed local and PROFINET remote I/O without validating PAC Machine Edition project and validated industrial Ethernet topology?

No. Confirm the PAC Machine Edition project and validated industrial Ethernet topology, revision, connection scheme and PACSystems RX3i Controllers configuration before transferring IC695CPE305 to that duty.

Q7 What maintenance evidence is required after IC695CPE305 is used for Supervisory integration through SRTP, Modbus TCP/IP or OPC UA?

Retain the nameplate record, corrective action, final diagnostics and a controlled supervisory integration through srtp, modbus tcp/ip or opc ua functional-test result for IC695CPE305.

Q8 How should IC695CPE305 be returned to service in Protocol-gateway duties using IEC, DNP3 or HART pass-through options?

Restore power under control, verify coordinates local and profinet remote i/o through an engineered pacsystems project, exercise the intended signal path and release IC695CPE305 only after the PACSystems RX3i Controllers remains in its approved operating state.

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