

IC695CPU320

PACSystems RX3i CPU320 Controller

Emerson IC695CPU320 is a 1 GHz PACSystems RX3i CPU with 64 MB user memory. It operates on the RX3i dual backplane bus and supports legacy serial communications for controlled-system

PRODUCT SNAPSHOT

BRAND
Emerson

FAMILY
PACSystems RX3i

PART
IC695CPU320

DOCUMENT STATUS
Controlled engineering copy

APTER POWER

WHATSAPP / PHONE

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PRODUCT OVERVIEW

IC695CPU320 provides high-capacity CPU execution and dual-bus RX3i backplane control for a matched PACSystems RX3i installation.

Exact catalog identity IC695CPU320

PACSystems RX3i CPU320 Controller

Documented role: high-capacity CPU execution and dual-bus RX3i backplane control

Controlled installation, diagnostics and functional verification

RELATED APTER POWER PAGES		
1 General Electric IC698CPE010	2 General Electric IC697MEM715	3 General Electric IC752SPL013
4 Emerson KC4011X1-BZ1	5 Emerson KJ2201X1-HA1	6 Emerson KJ2201X1-BA1
7 Emerson KJ3221X1-BA1-12P2531X122-VE4003S2B	8 Emerson KJ4001X1-BE1-12P0818X072-VE4050S2K	9 Emerson KJ2005X1-BK1-C2-A0SE3007

SYSTEM COMPONENTS

DOCUMENTED COMPONENT	ROLE IN SYSTEM
Proximity probe	Matched extension cable
Proximitor Sensor	AISI 4140 target

ENGINEERING CONTEXT

The component remains matched to the documented RX3i slot or carrier, terminal assembly, field power and engineering configuration. Commissioning preserves the installed architecture and verifies controlled response.

TECHNICAL DATA

PARAMETER	VALUE
Processor	1 GHz
User memory	64 MB
Power requirement	+3.3 VDC at 1.0 A nominal; +5 VDC at 1.2 A nominal
Embedded communications	RS-232 and RS-485

PARAMETER	VALUE
Backplane	RX3i PCI and high-speed serial bus
Compatible Genius gateway	IC695GCG001 with firmware 8.15 or later
Program environment	PACSystems RX3i
Battery retention	Supported with approved RX3i battery packs

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TECHNICAL NOTE

Install IC695CPU320 only in the documented PACSystems RX3i position. Preserve the as-found terminal, point and configuration records; then verify diagnostics and high-capacity CPU execution and dual-bus RX3i backplane control under controlled conditions.

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

PACSystems RX3i planned maintenance

Restores high-capacity CPU execution and dual-bus RX3i backplane control in the documented control

PACSystems RX3i CPU320 Controller replacement

Uses exact IC695CPU320 identity instead of an adjacent I/O or CPU execution.

Control-system refurbishment

Preserves the installed slot, terminal block, point map, power and engineering configuration.

Controlled recommissioning

Confirms diagnostics and the affected signal or control function before automatic operation.

PRODUCT PRECAUTIONS

- 1 Confirm the complete IC695CPU320 marking, module designation and documented RX3i installation position.
- 2 Place the controller, machine and connected process in the approved maintenance state.
- 3 Isolate controller and field power, prove the safe state and apply ESD controls before handling.
- 4 Record the slot, terminal block, every point assignment, common, shield and connected circuit before removal.
- 5 Verify the official electrical and configuration values documented for IC695CPU320; do not infer adjacent
- 6 Restore the approved backplane or carrier, terminal block, field power and engineering configuration.
- 7 Energize in the manufacturer sequence and review CPU, bus, module and channel diagnostics.
- 8 Complete a controlled signal, output or controller-response test before service release.

RELATED APTER POWER PAGES

- | | | |
|--|--|------------------------------------|
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ENGINEER FAQ

Q1 How is IC695CPU320 distinguished from adjacent RX3i catalog numbers?

Match the complete IC695CPU320 marking, the PACSystems RX3i CPU320 Controller designation and its recorded slot or carrier position.

Q2 What function is assigned to IC695CPU320 in the documented system?

The module provides high-capacity CPU execution and dual-bus RX3i backplane control in the matched PACSystems RX3i installation.

Q3 What is the official processor for IC695CPU320?

Emerson documents processor as 1 GHz; verify that value against the installed execution before work.

Q4 Which user memory applies to IC695CPU320?

The official value is 64 MB. Preserve the corresponding power, signal or controller configuration.

Q5 How should the documented power requirement be checked on IC695CPU320?

Confirm power requirement is +3.3 VDC at 1.0 A nominal; +5 VDC at 1.2 A nominal and compare the as-found wiring or configuration with the approved record.

Q6 What evidence is needed for the embedded communications of IC695CPU320?

Record the installed condition and verify the official value RS-232 and RS-485 during controlled commissioning.

Q7 What must be preserved before replacing IC695CPU320?

Record the slot or carrier, terminal assembly, point assignments, wiring, commons, shields, firmware or configuration state and active diagnostics.

Q8 How is IC695CPU320 accepted after installation?

Restore the documented hardware and point map, review module and controller diagnostics, and perform a controlled test of high-capacity CPU execution and dual-bus RX3i backplane control.

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SOURCE Emerson PACSystems RX3i System Manual GFK-2314AB | Emerson official product and PACSystems documentation, accessed 24 September 2026

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