

IC698CRE030

PACSystems RX7i 600 MHz redundant CPU

Redundant PLC execution, Ethernet data and serial communications

PRODUCT SNAPSHOT

BRAND

General Electric

FAMILY

GE PACSystems RX7i redundancy control

PART

IC698CRE030

ORIGIN / HS

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PRODUCT OVERVIEW

Redundant PLC execution, Ethernet data and serial communications

1

Uses a 600 MHz Pentium M processor

2

Provides 64 MB battery-backed user memory

3

Provides 64 MB nonvolatile flash memory

4

Integrates ten/one-hundred-megabit Ethernet

SYSTEM COMPONENTS

RX7i VME64 rack

redundancy partner CPU

compatible redundancy links

Proficy Machine Edition project

TECHNICAL NOTE

Back up the project, record primary/secondary roles, Ethernet and serial settings, battery state and firmware, then prove synchronization before switchover.

TECHNICAL DATA

PARAMETER	VALUE
Processor	Pentium M at 600 MHz
User memory	64 MB battery-backed RAM
Flash user memory	64 MB nonvolatile
Ethernet	Embedded 10/100 Mbit/s

PARAMETER	VALUE
Serial ports	3
Serial protocols	Modbus RTU slave; SNP; Serial I/O
Program blocks	Up to 512
Operating temperature	0 to 50 degC without fan; 0 to 60 degC with fan tray

ENGINEERING NOTE

Back up the project, record primary/secondary roles, Ethernet and serial settings, battery state and firmware, then prove synchronization before switchover.

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
Emerson VCCM8551G410MO	Related industrial automation product	View Emerson VCCM8551G410MO page
Emerson VCCM8551G309MO	Related industrial automation product	View Emerson VCCM8551G309MO page
Siemens 6SL3300-1AH32-5BA0	Related industrial automation product	View Siemens 6SL3300-1AH32-5BA0 page
Siemens 6SE7041-8GK85-0LA0	Related industrial automation product	View Siemens 6SE7041-8GK85-0LA0 page
Siemens 6SE7041-8EK85-1MA0	Related industrial automation product	View Siemens 6SE7041-8EK85-1MA0 page
Siemens 6SE7037-0EJ84-1JC2	Related industrial automation product	View Siemens 6SE7037-0EJ84-1JC2 page
Siemens 6SE7036-1EE85-1HA0	Related industrial automation product	View Siemens 6SE7036-1EE85-1HA0 page
Siemens C98043-A1682-L1	Related industrial automation product	View Siemens C98043-A1682-L1 page

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

Hot-standby process control

Uses a 600 MHz Pentium M processor

High-capacity RX7i logic

Provides 64 MB battery-backed user memory

Ethernet EGD coordination

Provides 64 MB nonvolatile flash memory

Redundant CPU replacement

Integrates ten/one-hundred-megabit Ethernet

PRODUCT PRECAUTIONS

- 1 Verify the complete IC698CRE030 marking and its assigned GE PACSystems RX7i redundancy control position before work.
- 2 Place the connected hot-standby process control process in the approved maintenance state.
- 3 Isolate applicable power and redundant plc execution, ethernet data and serial communications field energy before disconnecting conductors.
- 4 Record connector, conductor, address, firmware and software identities before removal.
- 5 Use ESD controls and protect keyed interfaces, exposed contacts and electronic assemblies.
- 6 Confirm the installed RX7i VME64 rack and redundancy partner CPU against the approved project.
- 7 Restore power in a controlled sequence and review device, network and host diagnostics.
- 8 Prove the intended high-capacity rx7i logic function and retain the final test result.

ENGINEER FAQ

Q1 Does IC698CRE030 match RX7i VME64 rack in a Hot-standby process control installation?

Verify the complete IC698CRE030 marking, the documented GE PACSystems RX7i redundancy control position and the installed RX7i VME64 rack before fitting the assembly.

Q3 Which GE PACSystems RX7i redundancy control records should be captured before removing IC698CRE030?

Record the as-found wiring, installed position, active configuration and diagnostic state associated with IC698CRE030 before disconnection.

Q5 Which redundancy partner CPU condition should be checked when IC698CRE030 reports an abnormal state?

Check the redundancy partner CPU supply, seating and connection first, then compare channel diagnostics with the recorded IC698CRE030 baseline.

Q7 What maintenance evidence is required after IC698CRE030 is used for Ethernet EGD coordination?

Retain the nameplate record, corrective action, final diagnostics and a controlled ethernet egd coordination functional-test result for IC698CRE030.

Q2 How should IC698CRE030 be wired when it must uses a 600 mhz pentium m processor?

Isolate the circuit, identify every terminal and reproduce the approved polarity, shield and channel assignment for IC698CRE030; then continuity-test the affected path.

Q4 What controlled test confirms that IC698CRE030 can provides 64 mb battery-backed user memory?

Apply the approved field or simulated stimulus, observe the GE PACSystems RX7i redundancy control indication and confirm the intended response without bypassing the normal interlocks.

Q6 Can IC698CRE030 be moved directly into High-capacity RX7i logic without validating Proficy Machine Edition project?

No. Confirm the Proficy Machine Edition project, revision, connection scheme and GE PACSystems RX7i redundancy control configuration before transferring IC698CRE030 to that duty.

Q8 How should IC698CRE030 be returned to service in Redundant CPU replacement?

Restore power under control, verify provides 64 mb nonvolatile flash memory, exercise the intended signal path and release IC698CRE030 only after the GE PACSystems RX7i redundancy control remains in its approved operating state.

SOURCE GE Fanuc PACSystems RX7i CPU documentation | GFK-2222; GFK-2223; GFK-2741

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