

INDUSTRIAL AUTOMATION PRODUCT

IC698CPE010

PACSystems RX7i 300 MHz CPU

GE IC698CPE010 is a 300 MHz PACSystems RX7i CPU with 10 MB of battery-backed user memory, 10 MB of nonvolatile flash memory and integrated Ethernet and serial communications. It executes RX7i control logic and coordinates supported Series 90-70 I/O and VME modules.

IDENTITY	VERIFIED VALUE
Manufacturer	GE
Complete model	IC698CPE010
Product role	PACSystems RX7i 300 MHz CPU
System family	PACSystems RX7i
Country of origin	USA

DOCUMENT SCOPE

Exact identity, manufacturer-supported technical data, installation checks, applications, precautions and controlled verification records.

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Technical Specifications

PARAMETER	VERIFIED VALUE
Processor	300 MHz Celeron
Battery-backed user memory	10 MB
Nonvolatile flash user memory	10 MB
Configurable %W memory	Up to 4 MB
Discrete references	32 Kbits each for %I and %Q
Analog references	Up to 32 Kwords each for %AI and %AQ
Program blocks	Up to 512; 128 KB maximum per block
Ethernet	Two switched 10/100BASE-T ports
Serial interfaces	Isolated RS-485, RS-232 and station manager
Operating temperature	0 to 50 °C without fan; 0 to 60 °C with fan tray

Model-Specific Engineering Note

ENGINEERING BOUNDARY

Record the IC698CPE010 firmware, rack slot, Ethernet settings, serial-port assignments and application checksum before replacement. Restore the approved hardware configuration and prove I/O, communications and control logic before releasing the RX7i system.

Pre-Installation Checks

NO.	REQUIRED CHECK
1	Verify IC698CPE010, firmware revision and rack-slot assignment before work.
2	Back up the application, hardware configuration, reference memory and Ethernet settings.
3	Place the controlled process in the approved safe state before stopping the CPU.
4	Use a fan tray when the ambient operating temperature can exceed 50 °C.
5	Record both Ethernet-port connections, IP parameters and switch path before removal.

System Role and Architecture

GE IC698CPE010 is a 300 MHz PACSystems RX7i CPU with 10 MB of battery-backed user memory, 10 MB of nonvolatile flash memory and integrated Ethernet and serial communications. It executes RX7i control logic and coordinates supported Series 90-70 I/O and VME modules.

FUNCTION 1

300 MHz RX7i controller execution platform

FUNCTION 2

10 MB battery-backed RAM plus 10 MB flash memory

FUNCTION 3

Two integrated switched 10/100 Ethernet ports

FUNCTION 4

Supports Series 90-70 I/O and VME modules

Common Applications

APPLICATION	ENGINEERING CONTEXT
RX7i machine control	Executes deterministic logic and coordinates local or networked I/O in an RX7i rack.
Legacy Series 90-70 migration	Retains support for documented Series 90-70 I/O and VME modules in a PACSystems controller.
Industrial Ethernet integration	Uses SRTP, EGD and Modbus TCP services through the integrated switched ports.
Supervisory and serial connectivity	Supports isolated serial communication, station management and time synchronization.

CONTROLLED ACCEPTANCE DUTY

Confirm identity, physical interface, companion hardware, configured values and functional response against the installed-system record before release.

Engineering Precautions

NO.	PRECAUTION
1	Verify IC698CPE010, firmware revision and rack-slot assignment before work.
2	Back up the application, hardware configuration, reference memory and Ethernet settings.
3	Place the controlled process in the approved safe state before stopping the CPU.
4	Use a fan tray when the ambient operating temperature can exceed 50 °C.
5	Record both Ethernet-port connections, IP parameters and switch path before removal.
6	Record RS-485, RS-232 and station-manager assignments and cable shielding.
7	Confirm battery condition before relying on battery-backed user memory.
8	Prove I/O, EGD, SRTP, Modbus TCP, serial links and control logic before release.

Model-Specific FAQ — Part 1

QUESTION	ANSWER
What processor is used by GE IC698CPE010?	IC698CPE010 uses a 300 MHz Celeron processor.
How much user memory does GE IC698CPE010 provide?	It provides 10 MB of battery-backed user RAM and 10 MB of nonvolatile flash user memory.
How many Ethernet ports are built into GE IC698CPE010?	The CPU provides two switched RJ45 ports supporting 10BASE-T and 100BASE-TX.
Which Ethernet services are documented for GE IC698CPE010?	The official information lists SRTP, Ethernet Global Data and Modbus TCP server/client services.

Model-Specific FAQ — Part 2

QUESTION	ANSWER
Which programming languages are supported by GE IC698CPE010?	The RX7i CPU documentation lists ladder diagram, structured text, function block diagram and C blocks.
Can GE IC698CPE010 operate at 60 °C?	Yes, but the published 0 to 60 °C range requires the documented fan tray; without it the upper limit is 50 °C.
Does GE IC698CPE010 support Series 90-70 I/O?	Yes. The RX7i CPU supports documented Series 90-70 I/O and VME modules subject to configuration and firmware requirements.
What should be verified after replacing GE IC698CPE010?	Verify firmware, application checksum, reference memory, Ethernet and serial settings, I/O health and the controlled process test.

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ic693chs398	View ic693chs398

MANUFACTURER SOURCE RECORD

PACSystems RX7i CPE010/CPE020 Important Product Information
GE Intelligent Platforms publication GFK-2244AG, February 2012; CPU Reference Manual GFK-2222

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