

IC697CPM790

Series 90-70 GMR CPU

GE IC697CPM790 is a 64 MHz, 32-bit floating-point Series 90-70 CPU with 1 Mbyte of user memory for Genius Modular Redundancy systems. It operates with the documented Standalone C program and GMR software configuration.

BRAND	GE	MODEL	IC697CPM790
PRODUCT	Series 90-70 GMR CPU	FAMILY	Series 90-70
OFFICIAL SOURCE	GE Fanuc IC697CPM790 Data Sheet	RECORD	GFK-1215B, IC697CPM790 CPU data

DOCUMENT SCOPE

Official technical evidence, controlled engineering checks, model-specific FAQ and related product navigation.

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Product Overview and Applications

SYSTEM FUNCTION

GE IC697CPM790 is a 64 MHz, 32-bit floating-point Series 90-70 CPU with 1 Mbyte of user memory for Genius Modular Redundancy systems. It operates with the documented Standalone C program and GMR software configuration.

FUNCTION 1

Executes 64 MHz floating-point control logic

FUNCTION 2

Supports the documented GMR triple-modular-redundancy architecture

FUNCTION 3

Provides 1 Mbyte of onboard user memory

FUNCTION 4

Requires the approved Standalone C program and matched GMR software

APPLICATION	ENGINEERING CONTEXT
GMR safety control	Runs approved TMR logic in Series 90-70 Genius Modular Redundancy systems.
Emergency shutdown	Supports documented critical-control applications with voted I/O.
Fire and gas control	Executes validated control logic in a matched GMR configuration.
Legacy system maintenance	Replaces an identical CPM790 after firmware, software and rack compatibility checks.

Technical Data and Acceptance

PARAMETER	VERIFIED VALUE
Controller family	Series 90-70
Processor	64 MHz, 32-bit floating point
User memory	1 Mbyte
Control architecture	Genius Modular Redundancy / TMR
Module width	Single slot
Backplane	VME C.1 through the Series 90-70 rack
Operating requirement	Standalone C program with GMR operating and autotest routines
Status interface	Mode switch, memory protection and four status LEDs

Acceptance Path

1 IDENTITY

The complete IC697CPM790 marking and revision agree with the engineering record.

2 COMPATIBILITY

System position, companion hardware and interfaces match the manufacturer documentation.

3 CONFIGURATION

Saved values, channel mappings and protection limits are restored without unexplained change.

4 FUNCTIONAL PROOF

Diagnostics and the model-specific controlled test pass without unexplained fault.

Precautions and Model-Specific FAQ

NO.	PRECAUTION	QUESTION	ANSWER
1	Verify the complete IC697CPM790 revision and installed firmware.	What is GE IC697CPM790?	It is a Series 90-70 GMR CPU with a 64 MHz 32-bit floating-point processor and 1 Mbyte of user memory.
2	Use the module in the documented Series 90-70 rack position.		
3	Back up application logic, configuration and GMR records before removal.	Why does GE IC697CPM790 require a Standalone C program?	The program provides the GMR operating and autotest routines required for the CPU to operate in the documented architecture.
4	Confirm the required Standalone C program is included in the loaded application.		
5	Match duplex or triplex CPU modules by model and approved revision.	Which control applications use GE IC697CPM790?	The GE data sheet identifies emergency shutdown, fire and gas, and other critical-control applications.
6	Verify GMR software, Genius Bus Controller and programming-software compatibility.	Can GE IC697CPM790 be mixed with a different CPU model in a duplex or triplex set?	No. The GMR system requires the CPUs in the redundant set to be the same model.
7	Observe the mode switch, memory-protect switch and status LEDs during startup.		
8	Complete voted-I/O diagnostics and the approved controlled functional test before release.		

Related Products on Apter Power

MODEL	APTER POWER PAGE
General Electric IC693ALG391	View General Electric IC693ALG391
General Electric IC693ALG391G	View General Electric IC693ALG391G
General Electric IC693CMM321-KM	View General Electric IC693CMM321-KM
General Electric IC693MDL742	View General Electric IC693MDL742
General Electric IC694ALG221A	View General Electric IC694ALG221A
General Electric IC694MDL645A	View General Electric IC694MDL645A

FAQ, Related Products and Sources

QUESTION	ANSWER
What must be backed up before replacing GE IC697CPM790?	Back up logic, hardware configuration, GMR settings, reference data and the installed software/firmware record.
Which GE IC697CPM790 indications should be checked after startup?	Check module OK, run, outputs enabled and memory-protect indications together with the mode switches.
What confirms successful commissioning of GE IC697CPM790?	A matched redundant set, passed GMR diagnostics, correct voted-I/O operation and an approved functional test confirm release.

Related Products on Apter Power

MODEL	APTER POWER PAGE
General Electric IC694MDL645D	View General Electric IC694MDL645D
General Electric IC694PWR321	View General Electric IC694PWR321
General Electric IC695NIU001-ADAD	View General Electric IC695NIU001-ADAD
General Electric HE693ADC415	View General Electric HE693ADC415
General Electric HE693SNP900	View General Electric HE693SNP900
General Electric HE693THM884G	View General Electric HE693THM884G
General Electric IC693ACC302B	View General Electric IC693ACC302B
General Electric IC693ALG223	View General Electric IC693ALG223

MANUFACTURER SOURCE RECORDS

GE Fanuc IC697CPM790 Data Sheet - GFK-1215B, IC697CPM790 CPU data
Emerson GMR compatibility information - GFK-2524B, CPM790 hardware and firmware requirements

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