

INDUSTRIAL AUTOMATION PRODUCT

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.

IDENTITY	VERIFIED VALUE
Manufacturer	GE
Complete model	IC697CPM790
Product role	Series 90-70 GMR CPU
System family	Series 90-70
Source record	GFK-1215B, IC697CPM790 CPU data

DOCUMENT SCOPE

Model identity, official technical data, model-specific applications, precautions, FAQ and controlled acceptance records.

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IC697CPM790

Technical Specifications

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

ENGINEERING BOUNDARY

Use only the complete GE IC697CPM790 identity and the current manufacturer documentation. Verify the installed revision, companion hardware, wiring and saved configuration before replacement or release.

Related Products on Apter Power

MODEL	APTER POWER PAGE
General Electric 0552N1QLG132A-06-V1-1	View General Electric 0552N1QLG132A-06-V1-1
General Electric 151X1202YE03SA04 -IS200STAIH2ADC	View General Electric 151X1202YE03SA04-IS200STAIH2ADC
General Electric 151X1225DF01PC03RA	View General Electric 151X1225DF01PC03RA
General Electric 151X1233DB02SA02	View General Electric 151X1233DB02SA02
General Electric 151X1235BC01SA41	View General Electric 151X1235BC01SA41
General Electric 269PLUS-100P-120	View General Electric 269PLUS-100P-120

System Role and Common Applications

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.

ACCEPTANCE DUTY
Confirm identity, interface, companion hardware, configured values and controlled functional response before release.

Engineering Precautions and FAQ

NO.	PRECAUTION
1	Verify the complete IC697CPM790 revision and installed firmware.
2	Use the module in the documented Series 90-70 rack position.
3	Back up application logic, configuration and GMR records before removal.
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.
6	Verify GMR software, Genius Bus Controller and programming-software compatibility.
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.

QUESTION	ANSWER
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.
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.
Which control applications use GE IC697CPM790?	The GE data sheet identifies emergency shutdown, fire and gas, and other critical-control applications.
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.

Related Products on Apter Power

MODEL	APTER POWER PAGE
General Electric 531X111PSHAPG3	View General Electric 531X111PSHAPG3
General Electric 531X111PSHARG1	View General Electric 531X111PSHARG1
General Electric 8021-CE-LH	View General Electric 8021-CE-LH
General Electric 8810-HI-TX-01	View General Electric 8810-HI-TX-01
General Electric 8811-IO-DC	View General Electric 8811-IO-DC
General Electric 8851-LC-MT	View General Electric 8851-LC-MT

FAQ, Related Products and Official 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.

MODEL	APTER POWER PAGE
General Electric DS200TCEAG1BSF	View General Electric DS200TCEAG1BSF
General Electric IC600BF843	View General Electric IC600BF843
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

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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