# GE Series 90-30 Series Service Manual

IC693CPU360

## 1. Description

The GE Fanuc IC693CPU360 is a Series 90-30 Processor module. This module is a CPU 360 module with single slot width, processor speed of 25 MHz with typical scan rate of 0.22 ms per 1K of logic for Boolean contacts. This processor has non embedded communication port instead, utilizes the RS485 port in the power supply module for communication.

## 2. Specifications

| Specification | Value |
|---|---|
| Brand | **GE Fanuc** |
| Series | **Series 90-30** |
| Part | **Number IC693CPU360** |
| Operating | **temperature 0 to 60 degrees Celsius (32 to 140 degrees Fahrenheit)** |
| CPU | **type Single slot CPU module** |
| User | **Memory 240K Bytes** |
| Processor | **type 80386EX** |
| Power | **requirements 670 milliamps from +5 VDC supply** |
| Serial | **port RS-485 (via power supply** |
| Typical | **Scan Rate 0.22 milliseconds per 1K of logic (boolean contacts)** |
| Type | **of Memory Storage RAM and Flash** |
| Number | **of Ethernet ports N/A** |
| Storage | **temperature -40 to 85 degrees Celsius (-40 to 185 degrees Fahrenheit)** |
| Product | **type CPU module** |
| Microprocessor | **80386EX** |
| Voltage | **input 5 Volts DC** |
| Current | **consumption 670 milliamps** |
| Clock | **speed 25 Megahertz** |
| Timers | **and counters > 2000** |
| Register | **memory 9999 words** |
| The | **IC693CPU360 is a Programmable Logic Controller (PLC) module from the GE Fanuc 90-30 series. This module is essentially a Central Processing Unit (CPU) module with the primary function of executing the downloaded user program to the module's 240Kbytes user memory. This processor is equipped wi** |

## 3. Product Information

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Technical specifications for IC693CPU360

Brand GE Fanuc

Series Series 90-30

Part Number IC693CPU360

Operating temperature 0 to 60 degrees Celsius (32 to 140 degrees Fahrenheit)

CPU type Single slot CPU module

User Memory 240K Bytes

Processor type 80386EX

Power requirements 670 milliamps from +5 VDC supply

Serial port RS-485 (via power supply

Typical Scan Rate 0.22 milliseconds per 1K of logic (boolean contacts)

Type of Memory Storage RAM and Flash

Number of Ethernet ports N/A

Storage temperature -40 to 85 degrees Celsius (-40 to 185 degrees Fahrenheit)

Product type CPU module

Microprocessor 80386EX

Voltage input 5 Volts DC

Current consumption 670 milliamps

Clock speed 25 Megahertz

Timers and counters > 2000

Register memory 9999 words

The IC693CPU360 is a Programmable Logic Controller (PLC) module from the GE Fanuc 90-30 series. This module is essentially a Central Processing Unit (CPU) module with the primary function of executing the downloaded user program to the module's 240Kbytes user memory. This processor is equipped with a 80386EX microprocessor having a processor speed of 25 MegaHertz at a typical scan rate of 0.22 ms per 1K of logic for Boolean contacts.

This CPU module does not come with a communication port however, for programming and communication purposes, the RS485 communication port located on the power supply module may be used. This port is accessed by opening the swing door of the power supply module which is situated at the left most of the baseplate.

The IC693CPU360 is capable of controlling up to Eight (8) baseplates. These baseplates includes the local rack where the CPU ins installed and Seven (7) baseplates acting as distributed or remote I/O system I/O. The IC693CPU360 is a single slot CPU with backplane current draw of 670 milliamps from +5 VDC supply.

This CPU has a total memory of 240K Bytes where up to 2048 Discrete Input, 2048 Discrete output, 1280 Discrete Global memory, 4096 internal coils, 256 bits of temporary outputs. This controller supports Random Access Memory (RAM) and Flash memory storage devices.

This controller may be configured using a variety of programming software application. This includes LogicMaster90, Control, VersaPro and CIMPLICITY Machine Edition Logic Developer. It also supports programming using the legacy Hand-Held Programmer (HHP).

The current draw of the IC693CPU360 module is 670 milliamps at 5 Volts DC. The CPU clock speed is 25 Megahertz. The IC693CPU360 module occupies a single slot in an 8-slot baseplate. The typical scan rate is 0.22 milliseconds for 1K of logic (Boolean contacts). Starting with the Release 9 firmware, the register memory ranges from 128 to 16384 words in 128-word increments with Logicmaster and from 128 to 32640 words in Control version 2.2. For firmware versions prior to Release 9, the register memory size is fixed at 9999 words. Timers and counters numbering in excess of 2000 are supported on the IC693CPU360 module. The CPU module comes with a single integrated serial port which uses the connector on the PLC power supply.