GE Series 90-70 Series Service Manual

IC697CPX935

1. Description

The IC697CPX935 is a Series 90-70 CPU from Emerson Automation, formerly by GE Fanuc. This processor is installed with 96 MHz, 80486DX4 microprocessor and Boolean processing speed of 0.4 microseconds. It supports configuration of up to 12K inputs and outputs of any combination and can accommodate up to 8K analog I/O.

2. Specifications

Specification	Value
Brand	**GE Intelligent Platforms/GE Fanuc**
Series	**Series 90-70**
Manufacturer	**Emerson Automation**
Part	**Number IC697CPX935**
Series	**Series 90-70**
Part	**Number IC697CPX935**
Product	**Description Central Processing Unit (CPU)**
Module	**Type Central Processing Unit**
Processor	**80486DX4 microprocessor**
Number	**of Slots 1 (Single Slot)**
Clock	**speed 96 megahertz**
Current	**Required 3.1 Amperes**
Discrete	**I/O 12 K, max (any combination)**
Points	**12K inputs and outputs (any mix)**
Analog	**I/O 8 K max**
Serial	**Ports RS-232 and RS-485**
Boolean	**execution 0.4 microseconds per boolean function**
Operational	**Temperature 50 degrees Celsius**
Compatibility	**GE Fanuc 90-70 PLCs**
Maximum	**RAM 1 MB**
Current	**input 3.1 Amps**
Microprocessor	**96 MHz**
Voltage	**input 5 Volts DC**
Communication	**LAN or link interface module**
Communication	**port One (1) RS232; Two (2) RS485 interface**
Operating	**temperature 0 to 60 degrees Celsius**
The	**IC697CPX935 is a Series 90-30 Central Processing Unit (CPU). This controller is a single slot CPU module that comes with Three (3) s**

3. Product Information

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Technical specifications for IC697CPX935

Brand GE Intelligent Platforms/GE Fanuc

Series Series 90-70

Manufacturer Emerson Automation

Part Number IC697CPX935

Series Series 90-70

Part Number IC697CPX935

Product Description Central Processing Unit (CPU)

Module Type Central Processing Unit

Processor 80486DX4 microprocessor

Number of Slots 1 (Single Slot)

Clock speed 96 megahertz

Current Required 3.1 Amperes

Discrete I/O 12 K, max (any combination)

Points 12K inputs and outputs (any mix)

Analog I/O 8 K max

Serial Ports RS-232 and RS-485

Boolean execution 0.4 microseconds per boolean function

Operational Temperature 50 degrees Celsius

Compatibility GE Fanuc 90-70 PLCs

Maximum RAM 1 MB

Current input 3.1 Amps

Microprocessor 96 MHz

Voltage input 5 Volts DC

Communication LAN or link interface module

Communication port One (1) RS232; Two (2) RS485 interface

Operating temperature 0 to 60 degrees Celsius

The IC697CPX935 is a Series 90-30 Central Processing Unit (CPU). This controller is a single slot CPU module that comes with Three (3) serial ports for communication. Specifically, it has One (1) RS232 Serial port and Two (2) 9-pin D-shell RS485 interfaces. These ports support SNP Slave, Break-Free SNP Slave. SNP slave is supported by all ports while Break-Free SNP slave is available only to Port1 and Port 2. The IC697CPX935 is also provided with a 96 MHz, 80486DX4 microprocessor with Boolean execution speed of 0.4 microseconds, It has an integrated 1MB battery-backed Random Access Memory (RAM) and 256 KB non-volatile flash memory. This controller accommodates 12K bits of Discrete input and output data. For analog Input and output, the controller has 8K Words memory allocation. This enables the controller to be used in large applications due to the I/O capacity it is capable of. The IC697CPX935 must be installed in an environment not exceeding 50 Degree Celsius. This CPU requires use of a Forced air-cooling fan to maintain the temperature with limits. Cooling fan assemblies may be used with this CPU such as Rack Fan Assembly with voltage rating 120 VAC (IC697ACC721); Rack Fan Assembly with operating voltage of 240 VAC (IC697ACC724); Rack Fan Assembly at 24 VDC with catalog number IC697ACC744. This CPU is downloaded with user programs that is develop using the MS-DOS or Windows based programming software. Aside from standard I/O and option modules, this CPU also supports communication with I/O and smart option modules over a rack mounted backplane that supports VME C.1.

The GE Fanuc IC697CPX935 CPU is a single-slot PLC CPU manufactured by GE Fanuc as part of the GE Intelligent Platforms/GE Fanuc PLC Series 90-70 product line. This module comes with 3 built-in serial ports and it can perform the real-time control of systems. The IC697CPX935 CPU communicates with various intelligent option modules through the rack mounted on the backplane by using VMEC.1 format. The CPU runs with a connection to a computer through software or by the use of a 3-position run and stop control switch. It also comes with a 96 MHz microprocessor, which enables the device to perform floating-point calculations after every 0.4 microseconds. The IC697CPX935 CPU supports any combination of 12,000 inputs and outputs and up to 8000 analog inputs and outputs. The GE Fanuc IC697CPX935 CPU supports modules in the GE IC697 family, analog and discrete I/O modules, and alphanumeric and programmable display processors. It also supports communication modules, GE IC660 and IC661 bus controllers, and link or LAN interface modules. The IC697CPX935 single-slot PLC CPU has 1 MB of RAM that is backed up by using the IC697ACC701 battery. It also comes with flash memory with about 256 KB of storage capacity for user data. The flash memory of this unit is used to store the system firmware. The users of this device do not need to disassemble this device or have the EPROM replaced when updating the firmware. The GE Fanuc IC697CPX935 CPU is configured by using a connected computer that runs software applications or MS-DOS in the Windows NT or Windows 95 operating systems.