GE Series 90-70 Series Service Manual

IC697CPX772

1. Description

The IC697CPX772 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 2K inputs and outputs of any combination and can accommodate up to 8K analog I/O.

2. Specifications

Specification	Value
Brand	**GE Fanuc**
Series	**Series 90-70**
Manufacturer	**Emerson Automation**
Part	**Number IC697CPX772**
Series	**Series 90-70**
Product	**type CPU module**
Part	**Number IC697CPX772**
Compatibility	**GE Fanuc 90-70 PLCs**
Product	**Description Central Processing Unit (CPU)**
RAM	**512 kilobytes**
Processor	**80486DX4 microprocessor**
NV-RAM	**256 kilobytes**
Clock	**speed 96 megahertz**
Current	**draw 3.1 Amps**
Discrete	**I/O 2 K, max (any combination)**
Voltage	**input 5 Volts DC**
Analog	**I/O 8 K max**
Serial	**ports 3**
Boolean	**execution 0.4 microseconds per boolean function**
Operating	**temperature 0 to 60 degrees Celsius**
Maximum	**RAM 512 kilobytes**
Current	**input 3.1 Amps**
Voltage	**input 5 Volts DC**
Communication	**port One (1) RS232; Two (2) RS485 interface**
The	**IC697CPX772 is a Central Processing Unit (CPU) module from Emerson Automation's Series 90-70 Programmable Logic Controller (PLC) series. This module comes with multiple communication interfaces specifically, One (1) RJ11 Serial communication interface and Two (2) 9-pin D shell RS485 communication po**

3. Product Information

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Technical specifications for IC697CPX772

Brand GE Fanuc

Series Series 90-70

Manufacturer Emerson Automation

Part Number IC697CPX772

Series Series 90-70

Product type CPU module

Part Number IC697CPX772

Compatibility GE Fanuc 90-70 PLCs

Product Description Central Processing Unit (CPU)

RAM 512 kilobytes

Processor 80486DX4 microprocessor

NV-RAM 256 kilobytes

Clock speed 96 megahertz

Current draw 3.1 Amps

Discrete I/O 2 K, max (any combination)

Voltage input 5 Volts DC

Analog I/O 8 K max

Serial ports 3

Boolean execution 0.4 microseconds per boolean function

Operating temperature 0 to 60 degrees Celsius

Maximum RAM 512 kilobytes

Current input 3.1 Amps

Voltage input 5 Volts DC

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

The IC697CPX772 is a Central Processing Unit (CPU) module from Emerson Automation’s Series 90-70 Programmable Logic Controller (PLC) series. This module comes with multiple communication interfaces specifically, One (1) RJ11 Serial communication interface and Two (2) 9-pin D shell RS485 communication ports. This processor supports SNP Slave, Break-Free SNP (Slave), SNPX and RTU serial protocols. This processor has built-in 512 KB of Random Access Memory (RAM) and 256 KB non-volatile flash memory. This processor supports floating point calculations which is data format being used in real-world computations and transactions as floating point math supports decimal values. It can accommodate up to 2K discrete input and discrete outputs of any combination and 8K Words of analog Input and output data. This processor is equipped with an 80486DX4 microprocessor with clock speed of 96 MHz. For Bollean execution, it has an execution speed of 0.4 microseconds per Boolean instruction. It also comes with a battery-backed Real-Time Clock (RTC) with accuracy of +/- 3.5 seconds per day, maximum and elapsed time clock accuracy of +/- 0.1%, maximum. The module’s Lithium battery has catalog number of IC697ACC701 with shelf life of 5 years when operating at temperature of 20 Degree with memory retention period of 6 months. The IC697CPX772 has current draw of 3.1 A and operating temperature of 0-60 Degree Celsius. The IC697CPX772 has a Three (3) position operation mode switch for locally changing the operating mode of the controller. It also has Seven (7) status LEDs such as OK, RUN, EN, P1, P2 and P3. It also has a MEM PROTECT LED that indicates activates when memory protect switch is engaged.

The GE Fanuc IC697CPX772 module is a 96 megahertz CPU module. The IC697CPX772 module is a 32-bit point module with 512 KB of user memory. Additionally, the module contains 256 KB of non-volatile flash memory. The IC697CPX772 module takes up one slot in the PLC rack. The microprocessor used by the module is an 80486DX4 microprocessor clocked at 96 megahertz. Three integrated serial ports are provided on the module. The 3 ports are independent and they can be accessed from connectors on the front of the module. The serial ports can be used to interface with serial devices and serial programming terminals. Port 1 supports the RS-232 serial communication protocol and it has a 6-pin RJ-11 connector. Port 2 supports the RS-485 serial communication protocol and it has a 15-pin female D-connector. Port 3 on the IC697CPX772 CPU module also supports the RS-485 protocol. The difference is that Port 2 is optocoupler isolated while Port 3 is not isolated. The IC697CPX772 module has a current consumption rating of 3.1 Amps. The input voltage required by the module is 5 Volts DC. The working temperature range of the module is from 32 to 140 degrees Fahrenheit. The following 3 different types of rack fan assemblies can be used with the IC697CPX772 module: 120 Volts AC-powered assembly, the 240 Volts AC-powered assembly, and the 24 Volts DC-powered assembly. The IC697CPX772 module supports floating point math, 2000 inputs/outputs, and 8000 analog I/O. The module is programmed by software running on DOS or Windows-based systems. The programming computer can connect to the CPU module over serial connections or over Ethernet connections.