GE Series 90-30 Series Service Manual

IC693CPU372

1. Description

The IC693CPU372 is a Series 90-30 component that is manufactured by GE Fanuc. This is a single-slot modular CPU. It is installed with an AMD SC520 processor with 133MHz clock speed and maximum user program memory of 240Kbytes. It supports 2048 Discrete Inputs, 2048 Discrete outputs, 32,640 (max) Analog input Words and 32640 Analog output Words (max). It has built-in Two (2) Ethernet interfaces that support 10/100 mbps transmission speed that supports industrial Ethernet and Modbus TCP / IP.

2. Specifications

Specification	Value
Brand	GE Fanuc
Series	Series 90-30
Manufacturer	GE Fanuc
Part	Number IC693CPU372
Product	Description Single slot CPU with Ethernet interface
Compatible	series VersaMax PLCs, PACSystems, Series 90
User	memory 120 Kbytes
Supported	communication protocols TCP/IP
Processor	type AMD SC520
Number	of I/O points 2048
Typical	scan rate 0.15 ms per 1K of Boolean logic
Register	memory 240 kilobytes
Processor	speeds 133 MHz
Processor	speed 133 Megahertz
Expandable	Yes
Floating	point math Yes
No.	of extension baseplates Seven (7) expansion baseplate; Seven (7) Remote I/O baseplate
Processor	model 80386EX
Discrete	Input Points - %I 2048
Supported	networks 100BaseTX IEEE 802.3 / 10BaseT
Discrete	Output Points - %Q 2048
Supported	number of joined Ethernet modules 3
Analog	Inputs - %AI 32,640 (max)
Ethernet	ports 2 x 10Base T / 100Base TX RJ-45, auto-sensing
Analog	Outputs - %AQ 32,640 (max)
System	version 32-bit
Communication	Ports Two (2) 10/100 mbps Ethernet port
Timers	/ Counters >2000
Interrupts	N

3. Product Information

The IC693CPU372 is a Series 90-30 component that is manufactured by GE Fanuc. This is a single-slot modular CPU. It is installed with an AMD SC520 processor with 133MHz clock speed and maximum user program memory of 240Kbytes. It supports 2048 Discrete Inputs, 2048 Discrete outputs, 32,640 (max) Analog input Words and 32640 Analog output Words (max). It has built-in Two (2) Ethernet interfaces that support 10/100 mbps transmission speed that supports industrial Ethernet and Modbus TCP / IP.

Technical specifications for IC693CPU372

Brand GE Fanuc

Series Series 90-30

Manufacturer GE Fanuc

Part Number IC693CPU372

Product Description Single slot CPU with Ethernet interface

Compatible series VersaMax PLCs, PACSystems, Series 90

User memory 120 Kbytes

Supported communication protocols TCP/IP

Processor type AMD SC520

Number of I/O points 2048

Typical scan rate 0.15 ms per 1K of Boolean logic

Register memory 240 kilobytes

Processor speeds 133 MHz

Processor speed 133 Megahertz

Expandable Yes

Floating point math Yes

No. of extension baseplates Seven (7) expansion baseplate; Seven (7) Remote I/O baseplate

Processor model 80386EX

Discrete Input Points - %I 2048

Supported networks 100BaseTX IEEE 802.3 / 10BaseT

Discrete Output Points - %Q 2048

Supported number of joined Ethernet modules 3

Analog Inputs - %AI 32,640 (max)

Ethernet ports 2 x 10Base T / 100Base TX RJ-45, auto-sensing

Analog Outputs - %AQ 32,640 (max)

System version 32-bit

Communication Ports Two (2) 10/100 mbps Ethernet port

Timers / Counters >2000

Interrupts No

Shift register Yes

Floating Point Math: Yes, hardware-based (built-in math co-processor)

The IC693CPU372 is a TCP I/P ethernet communication interface. This module is mainly used to enable communication over ethernet network and support system protocols such Modbus TCP Server / Client and Industrial Ethernet. This module can be used to periodically perform data exchange using Ethernet Global Data (EGD), SRTP and SRTP client. The IC693CPU372 supports full PLC programming and configuration services. It comes with Dual Ethernet ports that share the same IP Address and functions as an internal Ethernet switch, allowing Daisy chain connection of for networking and implementation of Device Level Ring (DLR) topology. Each port supports network auto sensing, eliminating the need of assigning the module to speed of the existing network. The IC693CPU372 is equipped with a dedicated processor with clock speed of 133 MHz. For configuration, a built-in web server allows remote connection of a configuration station which can be utilized for introducing simple configuration to the module as well as module monitoring. For programming of Programmable Logic Controller (PLC) function, the IC693CPU372 is configured using the Machine edition of PLC Logic Developer of the Proficy Machine Edition software packages. The IC693CPU372 supports It supports 2048 Discrete Inputs, 2048 Discrete outputs, 128 - 32,640 Analog input Words and 128 - 32640 Analog output Words (max) with a total user memory of 240 Kbytes. This built-in memory is of Random Access Memory (RAM) type that is battery backed-up. Optional non-volatile memory may be added or Flash memory to provide a memory that does not require battery energy to retain memory contents.

The IC693CPU372 module is designed and manufactured by GE Fanuc. This industrial communication module is intended for communication over the industrial Ethernet network that is operating through the TCP/IP protocol. The unit is compatible with GE PLC devices that are available through Series 90-30 or the VersaMax series, or with PLC devices that are part of the PACSystems. The IC693CPU372 module has an integrated interface for Ethernet communication and it can be used with host computers that have all the necessary installed software tools. The Ethernet interface supports up to 3 different Series 90-30 modules that can provide additional capabilities. The backplane of the programmable logic controllers from Series 90-30 can use the combined modules to improve the performance of the complete system. The IC693CPU372 communication module features 2048 input/output points and it provides a memory capacity of 240 kilobytes. Like most of the similar components from the series, this module has an 80386EX type processor and it is meant to be used on a 32-bit system. The unit supports communication through popular networks like the 100BaseTX IEEE 802.3 and 10BaseT networks. For these purposes, the unit includes 2 shielded Ethernet ports with auto-sensing capabilities. The unit has a pair of Ethernet connectors, a Station Manager function connector, LED status indicators, a main switch, and a restart button. The IC693CPU372 module supports floating point math, the duplex mode, easy configuration and programming, and an SRTP server option. The processor of the IC693CPU372 module works on 133 Megahertz and it supports either RAM or Flash memory for storage. The unit operates with a backup battery and it requires 7.4 Watts at 5 Volts DC.