GE Series 90-30 Series Service Manual

IC693CPU323

1. Description

The IC693CPU323 is a Series 90-30 component that is manufactured by GE Fanuc. This is a 10-slot Embedded CPU baseplate. This baseplate hosts the non-CPU or I/O slots, and Power supply slots. The embedded CPU is of 80188 processor with clock speed of 10 MHz, typical scan rate of 0.6 milliseconds per 1K of logic (boolean contacts) and maximum user program memory of 12Kbytes. It has One (1) serial port that support SNP slave and SNP-X slave protocols.

2. Specifications

Specification	Value
Brand	**GE Fanuc**
Series	**Series 90-30**
Manufacturer	**GE Fanuc**
Part	**Number IC693CPU323**
Product	**Description Embedded CPU baseplate**
Product	**type CPU baseplate**
No.	**of I/O slots Ten (10)**
CPU	**type Embedded CPU**
No.	**of Power supply slots One (1)**
Voltage	**input 5 Volts DC**
Expansion	**baseplate slot None**
Current	**input 430 milliamps**
User	**memory 12 Kbytes**
Operating	**temperature 0 to 60 degrees Celsius**
Processor	**type 80188**
Timers	**/ counters 340**
Typical	**scan rate 0.6 ms per 1K of Boolean logic**
Serial	**port 1**
Processor	**speeds 10 MHz**
Discrete	**I/Os 320**
Expandable	**None**
Discrete	**Input Points - %I 160 (maximum - combined inputs + outputs)**
Discrete	**Output Points - %Q 320 (maximum - combined outputs + inputs)**
Analog	**Inputs - %AI 64 words**
Analog	**Outputs - %AQ 32 words**
Built-in	**Serial Ports 1 (uses connector on PLC power supply). Supports SNP slave and SNP-X slave protocols**
Current	**load: 430 mA**
Bus	**voltage: +5VDC**
The	**IC693CPU323 is a Series 90-30 component that is manufactured by GE Fanuc. Specifically, this is a basep**

3. Product Information

The IC693CPU323 is a Series 90-30 component that is manufactured by GE Fanuc. This is a 10-slot Embedded CPU baseplate. This baseplate hosts the non-CPU or I/O slots, and Power supply slots. The embedded CPU is of 80188 processor with clock speed of 10 MHz, typical scan rate of 0.6 milliseconds per 1K of logic (boolean contacts) and maximum user program memory of 12Kbytes. It has One (1) serial port that support SNP slave and SNP-X slave protocols.

Technical specifications for IC693CPU323

Brand GE Fanuc

Series Series 90-30

Manufacturer GE Fanuc

Part Number IC693CPU323

Product Description Embedded CPU baseplate

Product type CPU baseplate

No. of I/O slots Ten (10)

CPU type Embedded CPU

No. of Power supply slots One (1)

Voltage input 5 Volts DC

Expansion baseplate slot None

Current input 430 milliamps

User memory 12 Kbytes

Operating temperature 0 to 60 degrees Celsius

Processor type 80188

Timers / counters 340

Typical scan rate 0.6 ms per 1K of Boolean logic

Serial port 1

Processor speeds 10 MHz

Discrete I/Os 320

Expandable None

Discrete Input Points - %I 160 (maximum - combined inputs + outputs)

Discrete Output Points - %Q 320 (maximum - combined outputs + inputs)

Analog Inputs - %AI 64 words

Analog Outputs - %AQ 32 words

Built-in Serial Ports 1 (uses connector on PLC power supply). Supports SNP slave and SNP-X slave protocols

Current load: 430 mA

Bus voltage: +5VDC

The IC693CPU323 is a Series 90-30 component that is manufactured by GE Fanuc. Specifically, this is a baseplate with an embedded turbo CPU. This is especially designed for small applications as the IC693CPU323 does not support expansion, it also does not support advanced modules such as the PCM and CCM modules. The IC693CPU323 has a CPU classified as a turbo CPU with typical scan rate of 0.6 milliseconds per 1K of Boolean logic. It is loaded with 12Kbytes of user memory, max or 6Kbytes for releases prior to version 7. It supports up to 320 discrete I/O points; 64 Words of Analog input and 32 Words of analog output Words. The IC693CPU323 is provided with 340 units of timer and counters and supports shift register instructions as well. The processor used for the IC693CPU323 is a 80188 with clock speed of 10 MHz. It is also provided with serial interface that supports SNP Slave and SNP-X slave protocols. It also supports installation of Optional communication capabilities include Ethernet, FIP, Profibus, GBC, GCM, GCM+ option modules. Aside from being a non-expandable hardware, the IC693CPU323 does not support override function, battery backed clock and program interrupts. By default, it uses a battery-backed RAM however, the battery is actually hosted by the power supply module. It may also be installed with optional non-volatile memory such as EPROM and EEPROM. The IC693CPU323 supports panel mounting, fastened through the mounting holes provided to the baseplate. This unit has a current load of 430 mA from +5VDC power supply.

The IC693CPU323 baseplate is a GE Fanuc Series 90-30 Ten-slot embedded CPU baseplate. Embedded CPUs offer the benefit of low costs but they lack the power and versatility of modular CPUs. The embedded CPUs are part of an embedded CPU baseplate in which the CPU and memory chips are soldered to the backplane board of the baseplate. The embedded CPUs cannot be changed, they do not support expansion or remote racks, and they do not have time-of-day clocks because the memory back-up battery is located in the power supply power and unplugging the power supply leads to disconnection of battery from the memory circuits, which would interfere with settings of a time-of-day clock. The power requirements of the IC693CPU323 baseplate are 5 Volts DC voltage and 430 milliamps of current. The IC693CPU323 baseplate is not compatible with PCM and CCM devices. The operating temperature range for the module is from 0 to 60 degrees Celsius. Interrupts, overrides, and battery backed clocks are features which are not available on the IC693CPU323 baseplate. Shift registers are supported. The number or timers and counters that are available is 340. The single serial port on the IC693CPU323 baseplate supports only the SNP slave and SNP-X slave communication protocols. Optional modules for the Profibus, Ethernet, and GCM protocols can be ordered separately if required. A total of 64 words are allocated for the analog inputs and 32 words are allocated for the analog outputs. The IC693CPU323 baseplate supports a total of 320 combined discrete inputs an