

MANUFACTURER DOCUMENT PACKAGE

# Manufacturer's Manual

Reference package for procurement and maintenance review

GE 90-30 SERIES PLC

## IC693CPU374-DJ

CPU 374 PLUS CONTROLLER

Used with the applicable Series 90-30 controllers configuration.

REFERENCE PACKAGE

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Selected official manufacturer pages follow this cover.

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## CPU374

## Catalog Number IC693CPU374

|                                                           |                                                                                                                                                                         |  |
|-----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| CPU type                                                  | Single slot CPU module with embedded Ethernet Interface                                                                                                                 |  |
| Processor speed                                           | 133 MHz                                                                                                                                                                 |  |
| Processor Type                                            | Embedded 586                                                                                                                                                            |  |
| Typical Scan Rate                                         | 0.15 milliseconds per 1K of logic (boolean contacts)                                                                                                                    |  |
| Type of Memory Storage                                    | RAM and Flash                                                                                                                                                           |  |
| User Memory (total)                                       | 240KB (245,760) Bytes. <b>Note:</b> Actual size of available user program memory depends on the amounts configured for %R, %AI, and %AQ configurable word memory types. |  |
| Discrete Input Points - %I                                | 2,048 (fixed)                                                                                                                                                           |  |
| Discrete Output Points - %Q                               | 2,048 (fixed)                                                                                                                                                           |  |
| Discrete Global Memory - %G                               | 1,280 bits (fixed)                                                                                                                                                      |  |
| Internal Coils - %M                                       | 4,096 bits (fixed)                                                                                                                                                      |  |
| Output (Temporary) Coils - %T                             | 256 bits (fixed)                                                                                                                                                        |  |
| System Status References - %S                             | 128 bits (%S, %SA, %SB, %SC - 32 bits each) (fixed)                                                                                                                     |  |
| Register Memory - %R                                      | Configurable 128 to 32,640 words                                                                                                                                        |  |
| Analog Inputs - %AI                                       | Configurable 128 to 32,640 words                                                                                                                                        |  |
| Analog Outputs - %AQ                                      | Configurable 128 to 32,640 words                                                                                                                                        |  |
| System Registers - %SR                                    | 28 words (fixed)                                                                                                                                                        |  |
| Timers/Counters                                           | >2,000 (depends on available user memory)                                                                                                                               |  |
| Battery Backed Clock                                      | Yes                                                                                                                                                                     |  |
| Battery Back Up (Number of months with no power)          | 1.2 months for internal battery (installed in the power supply)<br>15 months with external battery (IC693ACC302)                                                        |  |
| Load Required from Power Supply                           | 7.4 watts of 5VDC. High Capacity power supplies recommended.                                                                                                            |  |
| EZ Program Store Device                                   | Yes                                                                                                                                                                     |  |
| Total Baseplates per System                               | 8 (CPU baseplate + 7 expansion and/or remote)                                                                                                                           |  |
| Interrupt Support                                         | Supports the periodic subroutine feature.                                                                                                                               |  |
| Communications and Programmable Coprocessor Compatibility | Yes                                                                                                                                                                     |  |
| Override                                                  | Yes                                                                                                                                                                     |  |
| Floating Point Math                                       | Yes, Hardware Floating Point Math                                                                                                                                       |  |
| Programming Support                                       | VersaPro 2.03 or later. CIMPLICITY Machine Edition Logic Developer 2.60 or later. Control software version 2.50 or later.                                               |  |
| Built-in Serial Ports                                     | None. Supports RS-485 port on power supply.                                                                                                                             |  |
| Protocol Support                                          | SNP and SNPX on power supply RS-485 port                                                                                                                                |  |
| Built-in Ethernet Communications                          | Ethernet (built-in) – 10/100 base-T/TX Ethernet Switch                                                                                                                  |  |
| Number of Ethernet Ports                                  | Two, both are 10/100baseT/TX ports with auto sensing. RJ-45 connection.                                                                                                 |  |
| Number of IP Addresses                                    | One                                                                                                                                                                     |  |
| Protocols                                                 | SRTP and Ethernet Global Data (EGD). No channel support.                                                                                                                |  |
| Web Server Support                                        | None                                                                                                                                                                    |  |
| Operating Temperature                                     | 0 to 60°C (32 to 140°F) ambient                                                                                                                                         |  |
| Storage Temperature                                       | -40°C to +85°C                                                                                                                                                          |  |
| Agency Approvals                                          | UL508, C-UL (Class I, DIV II, A, B, C, D), CE Mark                                                                                                                      |  |
| Low Temperature (LT) Testing                              | Yes. The CPU374 is available for -40° to 60°C operation.                                                                                                                |  |