MANUFACTURER DOCUMENT PACKAGE

Manufacturer's Manual

Reference package for procurement and maintenance review

GE FANUC

IC693CPU374-GS

CPU 374 ETHERNET CONTROLLER

Used with the applicable Series 90-30 configuration.

REFERENCE PACKAGE

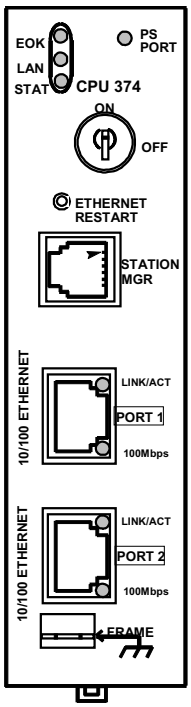
OFFICIAL DOCUMENT

Selected official manufacturer pages follow this cover.

Source: Series 90-30 PLC Installation and Hardware Manual GFK-0356Q

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. **Note:** 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) 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.



Chapter 6

Memory Backup/Battery Backup

Backup Battery for RAM Memory (All Supplies)

The long-life Lithium battery (IC693ACC301) used to maintain the contents of the CMOS RAM memory in the CPU is accessed by removing the cover plate located at the bottom of the power supply faceplate. This battery is mounted on a plastic clip attached to the inside of this cover.

The battery is wired to a small Berg female connector that connects to either of the two Berg male connectors mounted on the Power Supply printed circuit board. This battery can be replaced with power applied to the PLC.

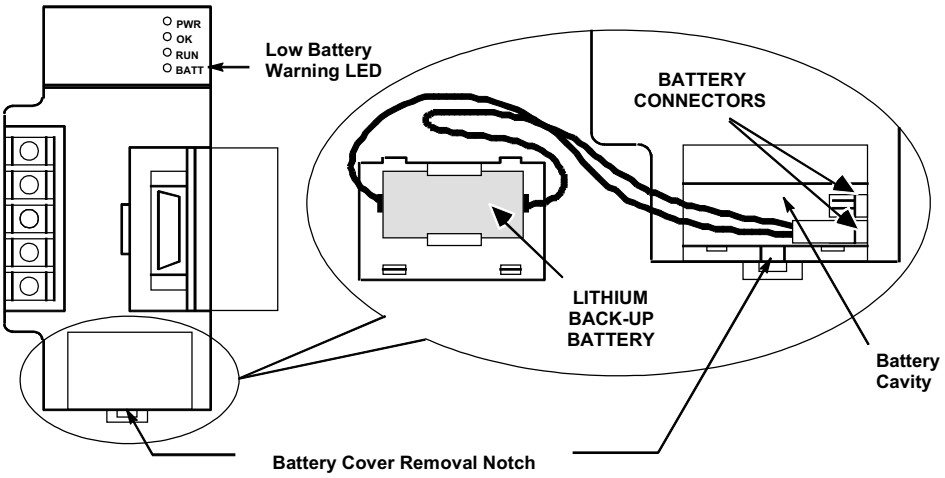


Figure 6-1. Backup Battery for RAM Memory

Caution

If a Low Battery Warning (BATT LED turns ON) occurs, replace the battery located in the power supply *before* removing power from the rack. Otherwise, there is a possibility that data will be corrupted or the application program will be cleared from memory.

Battery Replacement Instructions

Warning

To avoid the chance of losing the contents of RAM memory, you can carefully perform the following steps with PLC power ON. This procedure should only be performed by qualified electrical personnel who are trained in applicable electrical safety rules and procedures. Failure to follow standard electrical safety practice can result in injury or death to personnel, damage to equipment, or both.

- Carefully insert the tip a small pocket-size screwdriver approximately 1/4 inch (6 mm) into the battery cover removal slot, located beneath the battery cover (see previous figure).
- Gently rotate the screwdriver about 45 degrees to loosen the cover.
- Remove cover with fingers. The battery is mounted in a clip on the back of the cover. It has a pair of leads with a connector that is plugged-in to a connector on a circuit board inside the power supply.
- Carefully reach into battery cavity with your fingers (do not use a metal object to do this) and unplug the battery connector.
- Remove the old battery from the clip on the battery cover and set it aside. Be careful not to mix it up with the new battery.
- Carefully reach into battery cavity with your fingers (do not use a metal object to do this) and plug in new battery connector.
- Clip new battery into clip on battery cover.
- Snap battery cover back onto power supply.