GE IC693CPU374

01 Capture the controller recovery set

Scope: CPU374 PLUS technical implementation; match the offered hardware and firmware.

1 Separate the catalogue number from the revision

Record IC693CPU374 together with its hardware suffix, CPU firmware and Ethernet firmware. Keep a readable label photograph and the engineering-software version. The base reference alone does not establish the PLUS/KZ implementation described by these technical limits.

2 Preserve more than ladder logic

Retain hardware configuration, logic, required reference values, memory allocations, IP settings and the configured communication exchanges. Record the original process state and output isolation arrangements so recovery can be assessed against a known installation.

Retained engineering record

Identity	Base reference, hardware suffix, CPU and Ethernet firmware
Project	Logic, configuration, memory allocation and required reference data
Network	IP/subnet/gateway, peer identities and configured exchanges

Do not collapse two firmware identities

CPU and Ethernet software have separate version numbers. Capture both before comparing a replacement or planning an update. A shared catalogue number does not mean identical behavior across all revisions.

GE IC693CPU374

02 Reconcile rack power and companion modules

Scope: CPU374 PLUS technical implementation; match the offered hardware and firmware.

1 Calculate the actual supply requirement

The documented CPU374 PLUS draws 1.48 A from the +5 V rail. Add the installed I/O and any serial converters; a supply total wattage alone does not prove adequate rail capacity. Use the approved high-capacity supply arrangement and retained rack design.

2 Check version-sensitive companions

Compare output, analog and communication modules with the CPU compatibility requirements. An apparently healthy CPU can coexist with incorrect output updates or unstable analog values when an incompatible module revision remains in the rack.

Compatibility inspection matrix

IC693MDL730	Revision E or later
IC693ALG220 / IC693ALG221	Revision G or later
IC693PBM200 / IC693PBS201	Firmware at least 1.16 / 1.28.1 respectively

Serial accessories consume rack power

The IC690ACC901 cable converter adds 100 mA at 5 V; the IC690ACC900 converter adds 170 mA. Include whichever accessory is actually fitted, together with the installed I/O, in the rail-load assessment.

GE IC693CPU374

03 Restore retained power and battery paths

Scope: CPU374 PLUS technical implementation; match the offered hardware and firmware.

1 Work under the approved isolation boundary

Switch off power before replacing or wiring equipment where required, and follow the installation’s hazardous-location restrictions. Separate field energy and rack power. A CPU stop command alone is not electrical isolation.

2 Apply the correct battery procedure

For initial installation, the manufacturer sequence connects the battery after CPU initialization. For replacement, connect the new battery to the spare connector before removing the old one. Where hazardous-location restrictions apply, follow the manufacturer’s nonhazardous-area procedure rather than connecting a battery in place.

Memory-retention work boundary

Rack work	Isolation and area restrictions resolved before physical work
Battery change	Continuous backup maintained using the prescribed connector sequence
Recovery evidence	Retained configuration and reference values checked after power cycling

Backup media and live retention differ

Battery-backed RAM, Flash storage and an external program-store device are distinct recovery mechanisms. Establish which contains the approved application and required data; do not assume that a connected battery proves a valid Flash backup.

GE IC693CPU374

04 Transfer configuration without losing the route

Scope: CPU374 PLUS technical implementation; match the offered hardware and firmware.

1 Reconcile two address records

The engineering target IP and the IP inside hardware configuration are separate. A configuration store can change the controller address immediately. Verify the intended values before transfer and reconnect using the resulting address rather than repeatedly targeting the old one.

2 Plan interruption as part of the store

Ethernet configuration can restart the interface. Store hardware configuration separately when a combined configuration/logic/reference transfer would be interrupted. After the store, inspect both fault tables and compare the active configuration with the approved project.

Configuration-transfer checkpoints

Before store	Target and configured IP addresses compared
During store	Planned communication interruption and process state controlled
After store	Correct address, active project and fault-table interpretation

A timeout requires result inspection

Flash and program-store operations can suspend Ethernet communication. Do not infer failed hardware from a transfer timeout alone; inspect the resulting controller state using the approved recovery procedure before retrying.

GE IC693CPU374

05 Release the complete application path

Scope: CPU374 PLUS technical implementation; match the offered hardware and firmware.

1 Test useful data, not only link lights

Verify representative field input/output behavior and the required EGD, SRTP or Modbus exchanges. Include direction, reference area and data completion in the acceptance check. Preserve the approved outputs/inhibits until the whole control path passes.

2 Close temporary maintenance conditions

Remove temporary forces, test values and commissioning connections under the release procedure. Retain the final project, observed revisions, test results and configuration changes. A restored Ethernet session is only one component of acceptance.

Release evidence

Control path	Physical I/O and configured logic response agree
Communication	Expected peers, addresses, data and timing verified
Handover	Final backup, revisions and release state recorded

Technical basis

GE Intelligent Platforms CPU374 PLUS Important Product Information, GFK-2123AA. The ordering table identifies IC693CPU374. Ratings and operating notes here describe the CPU374 PLUS implementation, with the release information covering IC693CPU374-KZ. Confirm the available unit’s hardware and firmware before applying these values to an earlier revision.

Related control-system product references

Foxboro FBM232 P0926GW

Foxboro P0922YU FPS400-24

Honeywell TC-IAH161

Separate products; no substitution or compatibility is implied.