GE IC697CMM741

01 Capture network identity and software

1 Record the configured station

Read the 12-digit default station address on the module and record any locally assigned address set through soft switches. Save the rack slot and the network configuration before removal. The label address and the active address may differ, so do not use a photographed MAC label as the only configuration backup.

2 Retain the correct protocol package

Identify whether this installation uses TCP/IP or MMS/OSI and retain the corresponding licensed software and configuration files. These are alternative stacks, not simultaneous built-in services. Arrange access to the appropriate Factory LAN System Manager before requesting a software reload or replacing a module whose RAM contents are unknown.

3 Define the host test

List the actual programmer or host connections to be restored and the data exchange that proves them. Coordinate the maintenance window with the process owner because restarting or reloading the Ethernet controller interrupts transfers. A successful physical link is only one part of the final application test.

Identity	Default MAC, active address, configured slot
Software	Installed stack and retained load files
Acceptance	Named hosts and representative PLC data exchange

IC697CMM741 / Fit the module and preserve rack grounding

02 Fit the module and preserve rack grounding

1 Verify power and position

Check that the rack supply provides both required rails and includes the controller, transceiver and serial load in its budget. Remove rack power before installation. Use the configured module position, normally the first available slot to the right of the CPU or bus transmitter, without empty slots to its left.

2 Connect the memory battery

Inspect the battery lead and connect it to an available battery connector using the correct orientation. The battery preserves the downloaded RAM contents when rack power is absent. Retain the original software files even when the battery appears serviceable, since battery retention is not a substitute for a recovery copy.

3 Secure the module ground lead

Seat the module without force and fasten its green ground lead to the properly grounded rack lug. Inspect the mechanical locking arrangement and ensure the front service connections remain accessible. Poor rack grounding can affect LAN operation and must be corrected before investigating software faults.

Rack supply	+5 V and +12 V available
Placement	Configured slot, no empty slots to the left
Grounding	Module lead securely bonded to grounded rack

IC697CMM741 / Attach AUI and local service connections

03 Attach AUI and local service connections

1 Select the transceiver for the medium

Confirm the external device is IEEE 802.3 compatible, supports the installed medium and has SQE enabled. The module connects through a 15-pin AUI cable; it does not provide an RJ45 port. Check the separate network-cable rules for the selected medium rather than treating all Ethernet media as interchangeable.

2 Connect with PLC power removed

Attach or remove the transceiver only with PLC power off. Seat the AUI connector and secure its slide-lock, then inspect the external transceiver and network attachment. Keep the cable supported so pulling the network lead cannot loosen the module connector or its ground connection.

3 Verify the management cable

For local GSM access, check the RS-232 signals at the module: transmit on pin 2, receive on pin 3 and ground on pin 7. Match those signals to the service computer interface. The module is a DTE device, and a cable that physically fits is not proof of correct signal routing.

Network connector	15-pin female AUI; external transceiver
Transceiver setting	SQE enabled
Local service	RS-232 DTE at 9600 bps

IC697CMM741 / Load configuration and interpret indicators

04 Load configuration and interpret indicators

1 Start with the CPU in STOP

After physical checks, place the CPU operating switch in STOP and energize the rack through the approved procedure. MODULE OK flashes during diagnostics and while waiting for configuration; after successful startup it should remain on. Use the installed state and the other LEDs to distinguish normal loading from a fault.

2 Load the selected software

Use the matching GSM configuration and protocol software to restore the Ethernet controller. A flashing STATUS OK indication can mean the module is looking for a load source. Confirm the intended source, station settings and package before retrying; do not substitute an unrelated stack just to obtain an online indication.

3 Use restart deliberately

A short restart-button press restarts diagnostics and software. A press held for at least five seconds requests a reload and can leave the station dependent on its load source. Record the LED pattern and fault information before using either action, since the intervention interrupts data being transferred.

MODULE OK	Hardware diagnostics and module operation
ONLINE	Network readiness or transfer activity
STATUS OK	Exception status or software-loading state

IC697CMM741 / Prove host communication and retain recovery data

05 Prove host communication and retain recovery data

1 Test beyond the online LED

Verify communication with each required host or programmer and compare representative PLC data in both intended directions. Review station diagnostics for recurrent exceptions. Record the configured addresses, software release and successful host checks so later troubleshooting can separate network reachability from application behavior.

2 Return the network to its normal state

Restore the approved CPU operating state and remove temporary management connections only after the functional checks are accepted. Retain the GSM configuration, protocol image and battery maintenance information together. Confirm that no temporary address or test host remains in the production configuration.

Technical basis: GE Fanuc Ethernet Controller, GFK-0532K, in GFK-0600F.

Related product navigation

- GE IC697MDL653
- GE IC697CHS790
- GE IC697CMM742

These are related references, not confirmed substitutes or an automatically approved assembly.