GE IC697CMM741

01 Function and selected configuration

Product function

GE IC697CMM741 keeps network protocol processing on a dedicated rack module, allowing host communication and Ethernet programming to be selected through the appropriate downloadable software package.

Selected configuration

Single-slot 10 Mbps AUI Ethernet controller with local RS-232 service access. Communications software is loaded into battery-backed RAM. TCP/IP and MMS/OSI are alternative stacks selected for the application; installing the module alone does not establish a configured network service. Local or network Factory LAN System Manager tools provide configuration and software-loading functions for the corresponding package.

Functional path

PLC CPU / backplane	IC697CMM741	AUI transceiver	10 Mbps network

Network interface	10 Mbps IEEE 802.3 through a 15-pin AUI port
Local service port	9-pin RS-232 DTE, 9600 bps
Power demand	1.00 A at +5 V DC and 0.5 A at +12 V DC

MODULE OK, ONLINE and STATUS OK indicators distinguish hardware health, network readiness and exceptions or loading activity. The local RS-232 port supports service access, while the default station-address label supplies the MAC identity unless a locally assigned address is configured. Rack placement must not leave empty slots to the left of the module.

IC697CMM741 / Technical operating envelope

02 Technical operating envelope

Ethernet data rate	10 Mbps
MAC interface	IEEE 802.3 CSMA/CD
Logical link control	IEEE 802.2 Class I
Network connector	15-pin female D-sub AUI
Local serial connector	9-pin female D-sub
Local serial interface	RS-232 DTE, 9600 bps
Typical +5 V current	1.00 A
Typical +12 V current	0.5 A
RAM backup	At least 6 months with battery
Status indicators	MODULE OK, ONLINE, STATUS OK
Rack occupancy	1 slot
Transceiver SQE	Enabled

The current figures include external RS-232 loads and the transceiver. A suitable rack supply must provide both +5 V and +12 V. The external transceiver must be IEEE 802.3 compatible with SQE enabled.

IC697CMM741 / System integration and applications

03 System integration and applications

TCP/IP host exchange

Use the appropriate TCP/IP package for host and supported programmer communication over the plant Ethernet network.

MMS/OSI integration

Retain an installed MMS/OSI architecture with its corresponding software and management configuration.

Local station maintenance

Use the RS-232 service connection for configuration and software-loading tasks independent of normal network traffic.

Media-specific networks

Choose the external transceiver to connect the AUI port to the approved copper or fiber Ethernet medium.

System and supply context

The controller connects an IC697 rack to an external transceiver and network. Communications software, management tools and transceiver hardware are distinct parts of the assembled installation.

Application boundary

Applications depend on the downloaded protocol stack and host configuration; the hardware does not provide all protocol services simultaneously.

Why must SQE be enabled on the IC697CMM741 transceiver?

The module requires an 802.3-compatible transceiver with SQE enabled. Include that setting in the network hardware check instead of assuming a generic transceiver configuration is suitable.

IC697CMM741 / Engineering selection decisions

04 Engineering selection decisions

Can an RJ45 Ethernet cable plug directly into IC697CMM741?

No. The module exposes a 15-pin AUI port. Use an appropriate external IEEE 802.3 transceiver and AUI cable for the selected network medium.

Can IC697CMM741 run TCP/IP and MMS/OSI together?

They are alternative downloadable communications stacks. Select and load the one required for the installed application and retain its matching configuration and management tools.

What does a flashing STATUS OK LED mean on IC697CMM741?

It indicates software loading or a search for a load source. Distinguish this from a steady off state during operation, which calls for supervisory investigation using the management tools.

Why does IC697CMM741 require a rack supply with a +12 V output?

Its power budget includes 1.00 A at +5 V and 0.5 A at +12 V, including the external transceiver and RS-232 loads. A supply without the required +12 V rail is unsuitable.

Maintain rack continuity	Do not leave empty slots to the left of the configured Ethernet module.
Secure grounding	Fasten the module ground wire to the properly grounded rack.

IC697CMM741 / Configuration boundary and references

05 Configuration boundary and references

Lifecycle and support

The current manufacturing and OEM support stages for IC697CMM741 require confirmation from GE. Apter Power availability is confirmed separately.

Replacement assessment

Preserve the installed protocol package, station addressing, rack position and external transceiver. Do not assume a later Ethernet module accepts the same configuration or cabling.

Document roles

Use the original manufacturer excerpt for its preserved technical tables and drawings. This product brief explains configuration and selection boundaries. The independent installation guide organizes preparation, connection, testing and handover. It does not replace the applicable manufacturer installation instructions.

Technical basis

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

Related product navigation

- GE IC697BEM711
- GE IC697ALG320
- GE IC697BEM731

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

Product enquiries