

IC697CMM742

Series 90-70 TCP/IP Ethernet Interface (Type 2)

GE IC697CMM742 is a Series 90-70 TCP/IP Ethernet Interface Type 2 module. It exchanges controller data and service traffic between a Series 90-70 rack and the configured Ethernet network.

PRODUCT SNAPSHOT

BRAND

GE

FAMILY

Series 90-70 Ethernet communications

PART

IC697CMM742

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PRODUCT OVERVIEW

GE IC697CMM742 is a Series 90-70 TCP/IP Ethernet Interface Type 2 module. It exchanges controller data and service traffic between a Series 90-70 rack and the configured Ethernet network.

1

Connects a Series 90-70 PLC rack to an Ethernet network

2

Provides station-management access through the serial service interface

3

Exchanges PLC data through the documented TCP/IP communication services

4

Reports module, network and serial activity through dedicated front indicators

SYSTEM COMPONENTS

Series 90-70 PLC rack

10Base-T, 10Base2 or AUI network connection

RS-232 Station Manager cable

RS-485 software-load connection

TECHNICAL DATA

PARAMETER	VALUE
PLC platform	Series 90-70
Interface type	TCP/IP Ethernet Interface Type 2
Ethernet ports	10Base-T; 10Base2; AUI
Station Manager port	RS-232

PARAMETER	VALUE
Software-load port	RS-485
Network protocol	TCP/IP
Service protocol	SRTP
Front indicators	MODULE OK; LAN ONLINE; SERIAL ACTIVE; STATUS

SYSTEM CONNECTION AND ACCEPTANCE RECORD

RECORD ITEM	DOCUMENTED ASSIGNMENT
Installed host / carrier	Series 90-70 PLC rack
Companion hardware	10Base-T, 10Base2 or AUI network connection
Field connection	RS-232 Station Manager cable
Primary system function	Connects a Series 90-70 PLC rack to an Ethernet network
Controlled acceptance duty	Legacy PLC Ethernet integration

TECHNICAL NOTE

Insert IC697CMM742 in the documented Series 90-70 rack position, select one approved Ethernet port and record the network identity before configuring SRTP clients.

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

Legacy PLC Ethernet integration

Connects a Series 90-70 PLC rack to an Ethernet network

SCADA data exchange with Series 90-70 controllers

Provides station-management access through the serial service interface

Station Manager diagnostics

Exchanges PLC data through the documented TCP/IP communication services

Controlled network migration assessment

Reports module, network and serial activity through dedicated front indicators

PRODUCT PRECAUTIONS

- 1 Verify the complete IC697CMM742 marking and Type 2 hardware revision before service.
- 2 Place the Series 90-70 controller and networked process in the approved maintenance state.
- 3 Isolate rack and network energy before disconnecting the Ethernet or serial connectors.
- 4 Record the IP plan, SRTTP channels, Station Manager settings and cable type before replacement.
- 5 Use ESD controls and protect the RJ-45, BNC, AUI and serial connectors.
- 6 Connect only one approved Ethernet path unless the project explicitly defines the topology.
- 7 Confirm MODULE OK, LAN ONLINE, SERIAL ACTIVE and STATUS indications during checkout.
- 8 Test programmer, SCADA and controller data paths before returning the network to service.

ENGINEER FAQ

Q1 Does IC697CMM742 match Series 90-70 PLC rack in a Legacy PLC Ethernet integration installation?

Verify the complete IC697CMM742 marking, the documented Series 90-70 Ethernet communications position and the installed Series 90-70 PLC rack before fitting the assembly.

Q2 How should IC697CMM742 be wired when it must connects a series 90-70 plc rack to an ethernet network?

Isolate the circuit, identify every terminal and reproduce the approved polarity, shield and channel assignment for IC697CMM742; then continuity-test the affected path.

Q3 Which Series 90-70 Ethernet communications records should be captured before removing IC697CMM742?

Record the as-found wiring, installed position, active configuration and diagnostic state associated with IC697CMM742 before disconnection.

Q4 What controlled test confirms that IC697CMM742 can provides station-management access through the serial service interface?

Apply the approved field or simulated stimulus, observe the Series 90-70 Ethernet communications indication and confirm the intended response without bypassing the normal interlocks.

Q5 Which 10Base-T, 10Base2 or AUI network connection condition should be checked when IC697CMM742 reports an abnormal state?

Check the 10Base-T, 10Base2 or AUI network connection supply, seating and connection first, then compare channel diagnostics with the recorded IC697CMM742 baseline.

Q6 Can IC697CMM742 be moved directly into SCADA data exchange with Series 90-70 controllers without validating RS-485 software-load connection?

No. Confirm the RS-485 software-load connection, revision, connection scheme and Series 90-70 Ethernet communications configuration before transferring IC697CMM742 to that duty.

Q7 What maintenance evidence is required after IC697CMM742 is used for Station Manager diagnostics?

Retain the nameplate record, corrective action, final diagnostics and a controlled station manager diagnostics functional-test result for IC697CMM742.

Q8 How should IC697CMM742 be returned to service in Controlled network migration assessment?

Restore power under control, verify exchanges plc data through the documented tcp/ip communication services, exercise the intended signal path and release IC697CMM742 only after the Series 90-70 Ethernet communications remains in its approved operating state.

SOURCE GE Fanuc TCP/IP Ethernet Interface (Type 2) User Manual | GFK-1541

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