GE Series 90-70 Series Service Manual

IC697CMM742

1. Description

The IC697CMM742 is a Series 90-70 Communications Module from Emerson Automation, formerly by GE Fanuc. This is a single-slot module that comes with One (1) RS232 Station Manager port; One (1) RS485 Software load port; One (1) AUI port and One (1) Ethernet port. It has module status indicator such as MODULE OK; LAN ONLINE; SERIAL ACTIVE and STATUS.

2. Specifications

Specification	Value
Manufacturer	**GE Fanuc**
Series	**Series 90-70**
Manufacturer	**Emerson Automation**
Part	**Number IC697CMM742**
Series	**Series 90-70**
Product	**Type Ethernet Interface**
Part	**Number IC697CMM742**
Number	**of Network Ports 3**
Product	**Description Ethernet Interface**
Number	**of LEDs 4**
Network	**Ports 10BaseT Port: Ethernet, IEEE 802.3 CSMA/CD 10Base2 Port: Ethernet, IEEE 802.3 CSMA/CD**
LED	**Types MODULE OK, LAN ONLINE, SERIAL ACTIVE, and STATUS LEDs**
AUI	**Port: Ethernet, IEEE 802.3 CSMA/CD**
Installation	**In 1 Slot in the PLC CPU Rack**
Installation	**1 Slot in the PLC CPU Rack**
Restart	**Method Pushbutton**
Module	**Operating Voltage +5 VDC, +12 VDC**
Module	**Current Draw 2.0 Amps (+5 VDC), typical 0.5 Amps (+12 VDC), maximum when powering an external AUI transceiver**
Internal	**fuse 5 x 20mm, 250V, 1.0A, slow acting**
The	**IC697CMM742 is an Ethernet communication interface module that is made in compatibility with the Series 90-70 Programmable Logic Controller (PLC) series of Emerson Automation, formerly by GE Fanuc. This module enabled Ethe**

3. Product Information

The IC697CMM742 is a Series 90-70 Communications Module from Emerson Automation, formerly by GE Fanuc. This is a single-slot module that comes with One (1) RS232 Station Manager port; One (1) RS485 Software load port; One (1) AUI port and One (1) Ethernet port. It has module status indicator such as MODULE OK; LAN ONLINE; SERIAL ACTIVE and STATUS.

Technical specifications for IC697CMM742

Manufacturer GE Fanuc

Series Series 90-70

Manufacturer Emerson Automation

Part Number IC697CMM742

Series Series 90-70

Product Type Ethernet Interface

Part Number IC697CMM742

Number of Network Ports 3

Product Description Ethernet Interface

Number of LEDs 4

Network Ports 10BaseT Port: Ethernet, IEEE 802.3 CSMA/CD 10Base2 Port: Ethernet, IEEE 802.3 CSMA/CD

LED Types MODULE OK, LAN ONLINE, SERIAL ACTIVE, and STATUS LEDs

AUI Port: Ethernet, IEEE 802.3 CSMA/CD

Installation In 1 Slot in the PLC CPU Rack

Installation 1 Slot in the PLC CPU Rack

Restart Method Pushbutton

Module Operating Voltage +5 VDC, +12 VDC

Module Current Draw 2.0 Amps (+5 VDC), typical 0.5 Amps (+12 VDC), maximum when powering an external AUI transceiver

Internal fuse 5 x 20mm, 250V, 1.0A, slow acting

The IC697CMM742 is an Ethernet communication interface module that is made in compatibility with the Series 90-70 Programmable Logic Controller (PLC) series of Emerson Automation, formerly by GE Fanuc. This module enabled Ethernet connectivity, allowing the host processor to perform data exchange over Ethernet network. This module come with a variety of communication interfaces such as One (1) Station Mgr (RS-232) Serial Port; One (1) Software Load (RS-485) Serial Port; One (1) AUI Network Port; One (1) 10BaseT Network Port and One (1) 10Base2 network Port. It also comes with a restart that is used to re-initialize module communication. The IC697CMM742 provides connectivity via support to a variety of communication protocols such as Data exchange using configuration-based and logic-based Ethernet Global Data (EGD) and TCP/IP communication services using SRTP. This module also supports downloading and uploading of user program, troubleshooting of the user program and hardware. This module may also be used to communicate with Human Machine Interface (HMI) and Supervisory Control and Data Acquisition (SCADA) networks. The IC697CMM742 is provided with LED status indicators that can be used to locally monitor and troubleshoot the module in case of errors. These LED indicators include Module OK, LAN online, Serial Active and Status OK. This communication module has backplane current draw amounting to 2.0 A @ 5 VDC) and 0.5 Amps @ 12 VDC when powering an external AUI transceiver. Additionally, the module’s operating temperature is 0 C to +55C (32F to 131F). This module is also provided with a replaceable 1.0 A fuse used for module protection in the AUI transceiver port.

The GE Fanuc IC697CMM742 interface is an Ethernet interface device that is made for the GE Series 90-70 PLC systems. This Ethernet interface comes with 3 network ports that it can use to connect its host PLC an Ethernet LAN. These 3 ports are the AUI network port, the 10BaseT network port, and the 10Base2 network port. The AUI network port is a standard network port with 15 pins and it can connect to different devices with transceivers. The IC697CMM742 Ethernet interface comes with firmware that is preloaded to make the interface easy to install, and the firmware itself is easy to upgrade through a PC that can be attached to the interface through the RS-485 serial port. There is a pushbutton on the interface that can be used to restart it. The GE Fanuc Series 90-70 IC697CMM742 Ethernet interface is intended to provide TCP/IP communication to its host PLC system. It is installed in the PLC system that hosts it by being plugged into 1 slot in the PLC CPU rack and then by being configured with the IC641 PLC programming software. As many as 4 Ethernet interfaces like the IC697CMM742 Ethernet interface can be installed in the same PLC CPU rack. The interface can only use 1 of its 3 network ports at a time and it will automatically select which network port to use at a certain time. The IC697CMM742 Ethernet interface has 4 LEDs for interface status updates which include the MODULE OK, LED, the LAN ONLINE, LED, the SERIAL ACTIVE, LED, and the STATUS LED.