GE Series 90-70 Series Service Manual

IC697RCM711

1. Description

The IC697RCM711 is a Redundancy Communication module from the Series 90-70 Programmable Logic Controller (PLC) platform that is formerly manufactured by GE Fanuc, now under Emerson Automation. This module features a high-speed parallel bus expansion interface and supports operating with hot Standby and Enhanced Hot Standby CPU systems.

2. Specifications

Specification	Value
Brand	**GE Fanuc**
Series	**Series 90-70**
Manufacturer	**GE Fanuc (Former); Emerson Automation (Current)**
Part	**Number IC697RCM711**
Series	**Series 90-70**
Type	**Communication Module**
Product	**Description Redundancy Communication Module (RCM)**
Purpose	**Redundancy system**
Maximum	**cable length 50 feet (15 meters)**
Current	**required from 5V Bus 1.2 A**
Backplane	**Current draw 1.2 Amperes**
Maximum	**cable length 15 m**
Compatible	**Controllers IC697CPU780, IC697CGR772 and IC697CGR735**
Effective	**data rate 500 Kbytes / sec**
Compatible	**Bus Transmitter Module IC697BEM713**
Electrical	**isolation Non-isolated differential communication**
Compatible	**communication cable IC600WD005 / 010 / 025 / 050 cables**
VME	**Supported**
Terminating	**plug IC697ACC702**
Status	**indicators Yes**
Cable	**with termination IC697CBL811 / IC697CBL826**
Pushbutton	**Yes**
LED	**indicators OK, Local Ready, Local Active, remote Ready and Remote Active LED**
Product	**Lifecycle Discontinued**
The	**IC697RCM711 is a Redundancy Communications Module (RCM). It is part of the Series 90-70 Progr**

3. Product Information

The IC697RCM711 is a Redundancy Communication module from the Series 90-70 Programmable Logic Controller (PLC) platform that is formerly manufactured by GE Fanuc, now under Emerson Automation. This module features a high-speed parallel bus expansion interface and supports operating with hot Standby and Enhanced Hot Standby CPU systems.

Technical specifications for IC697RCM711

Brand GE Fanuc

Series Series 90-70

Manufacturer GE Fanuc (Former); Emerson Automation (Current)

Part Number IC697RCM711

Series Series 90-70

Type Communication Module

Product Description Redundancy Communication Module (RCM)

Purpose Redundancy system

Maximum cable length 50 feet (15 meters)

Current required from 5V Bus 1.2 A

Backplane Current draw 1.2 Amperes

Maximum cable length 15 m

Compatible Controllers IC697CPU780, IC697CGR772 and IC697CGR735

Effective data rate 500 Kbytes / sec

Compatible Bus Transmitter Module IC697BEM713

Electrical isolation Non-isolated differential communication

Compatible communication cable IC600WD005 / 010 / 025 / 050 cables

VME Supported

Terminating plug IC697ACC702

Status indicators Yes

Cable with termination IC697CBL811 / IC697CBL826

Pushbutton Yes

LED indicators OK, Local Ready, Local Active, remote Ready and Remote Active LED

Product Lifecycle Discontinued

The IC697RCM711 is a Redundancy Communications Module (RCM). It is part of the Series 90-70 Programmable Logic Controller (PLC) series, featuring a High-Speed Parallel Bus Expansion Interface, specially designed for use with Hot Standby and Enhanced Hot Standby CPU redundancy configuration. This module provides a synchronization path and I/O update path between the partner CPUs, contributing to rapid update and bumpless transfer of CPU control during the event of a switchover. The IC697RCM711 is part of a redundancy system that is typically comprised of Hot Standby Series 90-70 Controllers such as IC697CPU780, IC697CGR772, and IC697CGR735; Bus Transmitter Module with catalog number IC697BEM713 along with a Bus Terminator Plug with catalog number IC697ACC702. Up to 50 feet or 15 meters maximum cable distance is permitted between each CPU however, several cables are available for use with the RC< module including IC600WD005 / 010 / 025 / 050 cables with lengths of 5 feet or 1.5 meters; 10 feet of 3 meters; 25 feet of 7.5 meters and to 50 feet or 15 meters. Optionally, I/O cables with integrated terminating resistors can be used such as IC697CBL811 with a length of 10 feet or 3 meters or IC697CBL826 with a length of 25 feet or 7.5 meters. This module has built-in Status LED indicators such as OK, Local Ready, Local Active, remote Ready, and Remote Active LED indicators. It has Two (2) ports installed with 1 being a dummy port and a communication port that supports the connection of Expansion port IN. this module also has a manual pushbutton switch that can be triggered to initiate manual switchover from active to backup module.

The IC697RCM711 module is a redundancy communications module in the Series 90-70 product line by GE Fanuc Automation. The IC697RCM711 communications module is generally used in applications that include a Hot Standby or an Enhanced Hot Standby CPU Redundancy system. Both of these systems can have a connection length of at least 7.5 meters which enables them to be located in different areas if needed. The CPUs that support this kind of operation are the IC697CPU780, IC697CGR935, and the IC697CGR772 CPU. The GE Fanuc Automation Series 90-70 IC697RCM711 communications module requires a current of 1.2 Amps and a Bus voltage of 5 Volts and it also comes with an expansion interface that uses a 15-meter connection cable. This module can communicate at a data rate of 500 KB per second and it does not require specific electrical isolation in order to operate. This module has been designed to operate with the VME integrated devices. The GE Fanuc Automation IC697RCM711 communications module comes with status indicators and a physical pushbutton. Through these buttons, the current state of the system can be changed from the main unit to the backup unit and vice versa.