GE Rx7i PACsystem Series Service Manual

IC698ETM001

1. Description

The GE Fanuc / Emerson Automation IC698ETM001 is a PACSystem RX7i Ethernet interface module. This module features high-performance Ethernet capability. This module has Two (2) Ethernet communication ports supporting 10/100 Mbps communication rate with autosensing feature and One (1) serial communication that serves as station manager port. It supports TCP/IP

2. Specifications

Specification	Value
Compatible	**System RX7i system**
Description	**Ethernet interface module**
Part	**Number IC698ETM001**
Series	**Rx7i PACsystem**
Brand	**GE Fanuc**
Connector	**10 Base T/100 Base Tx, RJ 45**
Maximum	**Number of IP Addresses One**
LAN	**IEEE 802.2 Logical Link Control Class I IEEE 802.3 CSMA/CD Medium Access Control 10/100 Mbps**
Redundant	**IP Address Supported**
LED	**Indicators MODULE OK LAN ONLINE STATUS 100, LINK P1 100, LINK P2**
Module	**Operating Temperature 0 Deg. Celsius to +60 Deg. Celsius**
Serial	**Port (Station Mgr Port) RS-232 DCE, 1200 - 115200 bps. D-connector, 9-pin female**
Speed	**200 MHz**
Voltage	**5 Volts DC**
Current	**1.2 Amperes**
The	**IC698ETM001 is an Ethernet interface module that is manufactured by Emerson Automation, formerly GE Fanuc Automation. This module is part of the PACSystem RX7i Programmable Automation Controller (PAC) platform, enabling any rack installed with the IC698ETM001 module to connect to an existing Ethernet work for the purpose of Data Exchange with other controllers residing in the same network**

3. Product Information

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Technical specifications for IC698ETM001

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Series Rx7i PACsystem

Brand GE Fanuc

Connector 10 Base T/100 Base Tx, RJ 45

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The IC698ETM001 is an Ethernet interface module that is manufactured by Emerson Automation, formerly GE Fanuc Automation. This module is part of the PACSystem RX7i Programmable Automation Controller (PAC) platform, enabling any rack installed with the IC698ETM001 module to connect to an existing Ethernet work for the purpose of Data Exchange with other controllers residing in the same network, Remote I/O implementation, communication with visualization systems and 3rd party software and tools such as databases and enterprise software applications.

The IC698ETM001 feature Two (2) Ethernet ports, bot capable of transmitting data in 10/100 Mbps communication speed with auto-sensing capability. These ports are designed to be physically connected with the use of RJ45 connectors and minimum of CAT5 cable. These ports support daisy chaining, allowing formation of linear, star and ring topologies and supports unique or redundant IP addressing. Additionally, it has One (1) serial communication port that is a 9-pin sub-D connector, supporting transmission speeds of 1200 - 115200 bps. This port is basically a Station Manager port that is used to perform configuration to the module.

The IC698ETM001 supports a variety of communication protocols such as TCP/IP communication services using Service Request Transport Protocol (SRTP), SRTP client, MODBUS TCP Server, and MODBUS TCP Client. Additionally, this module supports Time synchronization to SNTP time server on Ethernet network.

The IC698ETM001 is equipped with a variety of LED indicator that provide an overview of the module’s present state. These LEDs are MODULE OK, LAN ONLINE, STATUS, 100, LINK P1 and 100, LINK P2. This module is equipped with a dedicated microprocessor, enabling the module to perform processing capability with speed of 200 MHz.

The IC698ETM001 module is equipped with different LEDs to indicate different events. It comes with the MODULE OK, LAN ONLINE, STATUS, 100 LINK P1, and 100 LINK P2 LEDs. It can accommodate only 1 IP address at a time. The IC698ETM001 module is equipped with two 10 Base T/100 Base Tx connectors, requiring RJ 45 connectors, 8-pin female connector for establishing connection to the bus. The Ethernet module allows daisy chaining for the Ethernet nodes. The module features station management and diagnostic tools that are helpful for the operators. The IC698ETM001 module handles redundant IP addressing, communication with a remote controller and time synchronization via the SNTP server. The module can be used for direct connection with a network hub without an external transceiver. It can easily store the application process in its flash memory and it can be easily upgraded by using the CPU serial port. The IC698ETM001 module meets the electrical and environmental standards necessary for global use.