GE RX3i PacSystem Series Service Manual

IC695EIS001

1. Description

The IC695EIS001 module is an IEC 104 server module from GE Fanuc. The IEC 104 is a client/server network protocol which was originally developed for electric utility sector applications.

2. Specifications

Specification	Value
Brand	**GE Fanuc**
Series	**RX3i PacSystem**
Part	**Number IC695EIS001**
Product	**Type IEC 104 server module**
Compatibility	**RX3i PacSystems devices**
Ethernet	**2 x 10/100 Mbps**
Serial	**RS-232 Yes**
Serial	**Data Rates 1200 to 115200 bps**
Power	**Requirement 0.840 Amps at 3.3 Volts DC**
Hot-swappable	**Yes**
Description	
The	**GE Fanuc RX3i PacSystems IC695EIS001 module is an Ethernet IEC 104 server module which implements the IEC 60870-5-104 protocol. The IC695EIS001 module allows RX3i controllers to interface with Ethernet networks over TCP/IP connections. When an IC695EIS001 module is installed in a RX3i rack, the controller can be configured as a server on an IEC 104 protocol and it allows for data exchanges with IEC 104 client devices. The IEC 104 protocol is a client/server network protocol which was originally developed for electric utility sector applications involving the distribution and transmission of electrical power. The IEC 104 protocol has subsequently developed into a widely used network protocol which i**

3. Product Information

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Technical specifications for IC695EIS001

Brand GE Fanuc

Series RX3i PacSystem

Part Number IC695EIS001

Product Type IEC 104 server module

Compatibility RX3i PacSystems devices

Ethernet 2 x 10/100 Mbps

Serial RS-232 Yes

Serial Data Rates 1200 to 115200 bps

Power Requirement 0.840 Amps at 3.3 Volts DC

Hot-swappable Yes

Description

The GE Fanuc RX3i PacSystems IC695EIS001 module is an Ethernet IEC 104 server module which implements the IEC 60870-5-104 protocol. The IC695EIS001 module allows RX3i controllers to interface with Ethernet networks over TCP/IP connections. When an IC695EIS001 module is installed in a RX3i rack, the controller can be configured as a server on an IEC 104 protocol and it allows for data exchanges with IEC 104 client devices. The IEC 104 protocol is a client/server network protocol which was originally developed for electric utility sector applications involving the distribution and transmission of electrical power. The IEC 104 protocol has subsequently developed into a widely used network protocol which is based on a 3-layer architecture. Two auto-sensing 10/100 Ethernet ports allow for direct connection to eight 10/100 Mbps Ethernet networks without needing an external transceiver. The IC695EIS001 module's Ethernet ports can support line, star ,and daisy-chain topologies. The RS-232 station manager interface supports data rates of 1200 to 115200 bps. The IEC 104 server module on the IC695EIS001 module supports a maximum of 8 connections to the RX3i controller data set and it supports RBE and interrogation for regulated step, single point, and double point data and it supports a 56-bit time format. A single IC695EIS001 module supports one IEC 104 sector. A maximum of 4 IC695EIS001 modules can be supported by an RX3i CPU. The number of IEC 104 clients which are supported by an RX3i CPU is 4. The number of IEC 104 points supported by a single IC695EIS001 module is 6144. The IC695EIS001 module is hot-swappable and it requires 0.840 Amps of current at 3.3 Volts DC.