GE RX3i PacSystem Series Service Manual

IC695NKT002

1. Description

The IC695NKT002 is a PACSystems RX3i assembly that is manufactured by Emerson Automation, formerly by GE Intelligent Platforms (GE IP). This module is a packaged product consisting of One (1) Ethernet NIU with catalog number IC695NIU001 and Two (2) Ethernet Interface Module with catalog number IC695ETM001. This assembly simplifies ordering system and ensures that complete components are ordered.

2. Specifications

Specification	Value
Brand	**GE Intelligent Platforms/GE Fanuc**
Series	**PACSystem RX3i**
Manufacturer	**Emerson Automation**
Part	**Number IC695NKT002**
Product	**Description Ethernet network interface unit kit**
Kit	**components One (1) Ethernet NIU with catalog number IC695NIU001 and Two (2) Ethernet Interface Module with catalog number IC695ETM001**
Product	**Line RX3i**
Communication	**ports (IC695NIU001) Two (2) RS-232 / RS-485**
Catalog	**IC695**
Communication	**ports (IC695ETM001) Two (2) Ethernet ports; One (1) Station Manager**
Product	**Type Ethernet Network Interface Unit (ENIU)**
LED	**indicators (IC695NIU001) NIU OK; NIU Scanning I/O; Outputs enabled; COM1; I/O Force; Status; Syst Fault; COM2;**
Optional	**Local Logic 240 kb**
LED	**indicators (IC695ETM001) Ethernet OK; LAN OK; Log Empty**
Built-in	**Flash Memory 10 MB**
Flash	**Memory (IC695NIU001) 10 MB**
Feature	**Battery-backed Real Time Clock**
Current	**consumption (IC695NIU001) 3.3 VDC: 0.52 Amps nominal; +5.0 VDC: 0.95 Amps nominal**
Serial	**Ports RS-232, RS-485**
Compatible	**I/O module Series 90-30 module**
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3. Product Information

The IC695NKT002 is a PACSystems RX3i assembly that is manufactured by Emerson Automation, formerly by GE Intelligent Platforms (GE IP). This module is a packaged product consisting of One (1) Ethernet NIU with catalog number IC695NIU001 and Two (2) Ethernet Interface Module with catalog number IC695ETM001. This assembly simplifies ordering system and ensures that complete components are ordered.

Technical specifications for IC695NKT002

Brand GE Intelligent Platforms/GE Fanuc

Series PACSystem RX3i

Manufacturer Emerson Automation

Part Number IC695NKT002

Product Description Ethernet network interface unit kit

Kit components One (1) Ethernet NIU with catalog number IC695NIU001 and Two (2) Ethernet Interface Module with catalog number IC695ETM001

Product Line RX3i

Communication ports (IC695NIU001) Two (2) RS-232 / RS-485

Catalog IC695

Communication ports (IC695ETM001) Two (2) Ethernet ports; One (1) Station Manager

Product Type Ethernet Network Interface Unit (ENIU)

LED indicators (IC695NIU001) NIU OK; NIU Scanning I/O; Outputs enabled; COM1; I/O Force; Status; Syst Fault; COM2;

Optional Local Logic 240 kb

LED indicators (IC695ETM001) Ethernet OK; LAN OK; Log Empty

Built-in Flash Memory 10 MB

Flash Memory (IC695NIU001) 10 MB

Feature Battery-backed Real Time Clock

Current consumption (IC695NIU001) 3.3 VDC: 0.52 Amps nominal; +5.0 VDC: 0.95 Amps nominal

Serial Ports RS-232, RS-485

Compatible I/O module Series 90-30 module

Communication Ethernet

Operating Temperature 0degrees C to 60degrees C (32degrees F to 140degrees F)

Data Exchange EGD

Mounting Location Any RX3i Backplane

Floating Point Yes

Operating Temperature 0 to 60 degrees Celsius

The IC695NKT002 is a PACSystem RX3i assembly of products or commonly called as kit. This is comprised of One (1) Ethernet NIU with catalog number IC695NIU001 and Two (2) Ethernet Interface Module with catalog number IC695ETM001. All modules that are part of this kit are manufactured by Emerson Automation, previously by GE Intelligent Platforms (GE IP). The IC695NKT002 assembly is used to allow PACSystem RX3i platform to communicate with Series 90-30 modules or VersaMax modules and controllers. This provides an alternative method of migrating to a newer controller platform without total replacement of the system - sometimes referred to a phased migration or partial migration. The main function of the IC695NIU001 is to provide provide connectivity to existing Series 90-30 I/O modules through the embedded Serial interface that supports RS232 and RS485 connection. These ports are compatible to be configured for Modbus RTU Slave, SNP, Serial I/O, Modbus RTU Master by application "C" block which are the communication protocols of the Legacy Series 90-30 to communicate to devices and I/O modules. The IC695ETM001 is utilized to communicate with other PACsystems, equipment, Series 90-30 and VersaMax controllers via the Ethernet communication interface. These port enables TCP/IP connection by using GE Fanuc SRTP and Ethernet Global Data (EGD) protocols over a four-layer TCP/IP stack. The components of the IC695NKT002 can be separately purchased. Additionally, other accessories such as Real Time Clock (RTC) Battery with catalog number (IC690ACC001), Mini Converter Kit with Cable, RS-485/RS-232 (IC690ACC901), RS-485 Port Isolator (IC690ACC903), RS-232 Cable (IC200CBL001) among other components.

Old entry describes the NIU only not the kit.