GE RX3i PacSystem Series Service Manual

IC695PNS001

1. Description

The GE Fanuc / Emerson Automation IC695PNS001 is a Profinet scanner module. This block is part of the PACSystems RX3i product family. It connects a remote I/O rack to a Series 90-30 / RX3i module to Profinet I/O network. This module has One (1) USB micro port for firmware upgrade, and Four (4) Ethernet ports that support 10/100/1000 Mbps transmission rate.

2. Specifications

Specification	Value
Brand	**GE Intelligent Platforms/GE Fanuc**
Series	**RX3i PacSystem**
Part	**Number IC695PNS001**
Product	**Line RX3i**
Catalog	**IC695**
Product	**Type PROFINET Scanner Module**
Number	**of Slots 1 (single slot)**
Backplane	**Support Universal**
Protocol	**Support PROFINET**
USB	**Ports 1 Micro USB**
Internal	**Power at 5 V DC 1.1 A**
Internal	**Power at 3.3 V DC 1.2 A**
Operating	**Temperature 0 to 60 degrees Celsius**
Storage	**Temperature -40 to 85 degrees Celsius**
Ethernet	**Ports Four (4) Switched Ethernet ports**
Supported	**Topologies Linear, Star, Daisy chain, Redundant Media**
LED	**Indicators OK LED, LAN LED, STATUS LED, CONN LED, ORT LEDs, ACTIVE LED, USB LED**
The	**IC695PNS001 is a Profinet scanner module that is manufactured by GE Fanuc / Emerson Automation. This module is a single slot wide module, that is used to manage Profinet connections such as communicating to remote I/O devices residing in universal I/O backplanes, whether Series 90-30 or RX3i modules; Sending I/O data through the Profinet network to the partner CPUs in the networ**

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Technical specifications for IC695PNS001

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The IC695PNS001 features One (1) micro USB port that is mainly used in performing firmware upgrades. It is also equipped with Four (4) Ethernet communication ports that primarily support Profinet protocol. Each of the ports supports modern communication speeds such as 10/100/1000 Mbps communication speed and supports a variety of topologies such a Liner, Daisy-chain, Star, Ring or redundant Ethernet media topology. Additionally, Two (2) of the IC695PNS001's ethernet port are Two (2) Small Form Factor (SFP) pluggable cages that may be installed with SFP modules for converting network to Fiber Optic media. The IC695PNS001 is designed with simplified configuration method. I/O device name, IP address and other parameters may be saved in an SD card and transferred to other Profinet Scanner module by inserting the same SD card. This method eliminates dependency with software configuration tool and significantly decreases maintenance time.

The IC695PNS001 occupies a single slot of the backplane with status LED indicators mounted on the module's front panel. It has OK LED, LAN LED, STATUS LED, CONN LED, individual PORT LEDs, ACTIVE LED and USB LED. These LED indicators provided comprehensive overview of the module's operational state.

The IC695PNS001 has an internal power rating of 1.2 Amps at 3.3 Volts DC or 1.1 Amps maximum at a rated voltage of 5 Volts DC. This module supports the Proficy Machine Edition version 8.50 or later versions of the software. The operating temperature range for this module is 0 to 60 degrees Celsius, and it comes with 2 SFP and 2 RJ-45 cages with the SFP devices available separately. When the network communications are lost, the IC695PNS001 PROFINET scanner module helps to manage the input and output states depending on the specific configurations of a module. This module features 4 switched Ethernet ports, it supports the daisy chain, star, or ring topologies.