

MANUFACTURER DOCUMENT PACKAGE

Manufacturer's Manual

Reference package for procurement and maintenance review

GE PACSYSTEMS RX3i

IC695PNS001-BBBB

PROFINET SCANNER MODULE

Used with the applicable PACSystems RX3i communications configuration.

REFERENCE PACKAGE

OFFICIAL DOCUMENT

Selected official manufacturer pages follow this cover.

Source: GE official manufacturer documentation

16.20 PROFINET Scanner Module: IC695PNS001/IC695PNS101

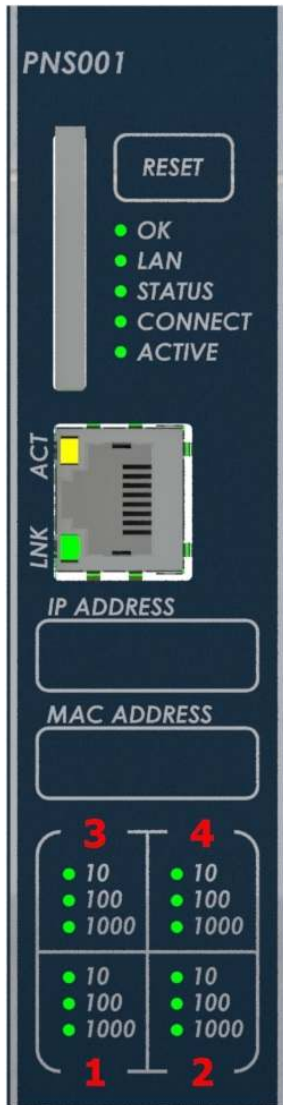


Figure 407: IC695PNS001-Bxxx

The PACSystems* RX3i PROFINET Scanner (PNS) module, IC695PNS001⁹⁹, connects a remote universal RX3i I/O rack of Series 90-30 or RX3i modules to a PROFINET I/O Controller. The PROFINET Scanner scans the modules in its rack, retrieving input data and providing output data, and exchanges that data on the PROFINET I/O LAN at the configured production rate.

The PNS manages PROFINET communication and module configuration between an I/O Controller and modules in the remote rack. If network communications are lost, the PNS manages I/O states according to the individual module configurations.

The PNS supports 10/100/1000 Mbps Copper, 100/1000 Mbps Multi-mode Fiber, and 100/1000 Mbps Single-mode Fiber. PROFINET communications on the network require 100 or 1000 Mbps link speed. Although 10 Mbps cannot be used for PROFINET communications, 10 Mbps can be used for other types of Ethernet traffic such as PING.

IC695PNS101 provides all the features of IC695PNS001-Bxxx, but has been optimized for the Sequence of Events application. Refer to the *PACSystems RX3i Sequence of Events User Manual*, GFK-3050.

16.20.1 Features

- Programming and configuration services for all supported Series 90-30 and RX3i I/O Modules using Proficy Machine Edition. Refer to table below for compatibility details.
- Support for daisy-chain/line, star, or ring (PROFINET Media Redundancy Protocol (MRP)) topologies.
- Four switched Ethernet ports - two 8-conductor RJ-45 shielded twisted pair 10/100/1000 Mbps copper interfaces and two Small Form-factor Pluggable (SFP) cages for user-supplied SFP devices.
- The network can include media interfaces of more than one type.
- Support for transfer of I/O Device Name to another PNS module using an SD card. This eliminates the need to connect a configuration tool, such as Proficy Machine Edition when replacing a module.

16.20.2 Front Panel Port

Controller CPU firmware	CPE400, CPL410 with LAN2 configured as embedded PROFINET Controller. CPU330 firmware version 8.45 or later CPU315/CPU320 firmware version 7.10 or later CPE302/CPE305/CPE310 firmware version 7.10 or later RXi Controller firmware version 7.80 or later CRU320 Primary Firmware version 8.00	
Programmer software	Proficy Machine Edition version 8.50 SIM 2 or later	
RX3i PROFINET Controller	IC695PNC001 with firmware version 1.20 or later (Simplex I/O) IC695PNC001 with firmware version 2.00 or later (Redundant I/O)	
RX3i backplane hardware	The following minimum backplane hardware revision must be used: IC695CHS012-BAMP IC695CHS016-BAMP IC695CHS012CA-BAMP IC695CHS016CA-BAMP or IC695CHS012-CA (or later) IC695CHS016-CA (or later) IC695CHS012CA-CA (or later) IC695CHS016CA-CA (or later) or IC695CHS007-AA (or later) When installing, operating, or maintaining the IC695PNS001, personnel must insure any electrostatic charge is discharged through the use of a grounded ESD strap or other means. This requirement does not apply if the IC695PNS001 is used with the following backplane revisions: IC695CHS012-EA (or later) IC695CHS016-EA (or later) IC695CHS012EA-CA (or later) IC695CHS016EA-CA (or later) or IC695CHS007-BA (or later)	
	IC695SPC100A or later	RX3i 10/100/1000Base-T copper SFP