

GFK-2574A

July 2012

The VersaMax PROFINET Scanner (PNS) module interfaces a remote node of VersaMax modules to a PROFINET IO-Controller. The PROFINET Scanner scans the modules in its node, retrieving input data and providing output data, and publishes input data on the PROFINET Network at the configured production rate. The PNS manages PROFINET communication and module configuration between an IO-Controller and modules within the remote node. If network communications are lost, the PNS manages I/O states according to the individual module configurations.

The PNS is available in two versions to allow you to use the network media that meet the requirements of your application.

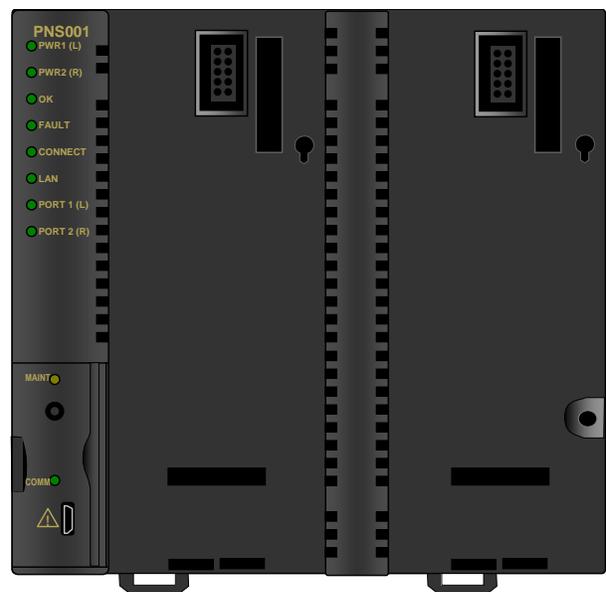
IC200PNS001: Two 10/100 Mbps copper interfaces

IC200PNS002: Two 100Mbps Multi-Mode fiber (MMF) ports

Features

- Supports redundant power supplies. Use of the second power supply is optional.
- Supports “hot swap” of a redundant power supply that is de-energized.
- Standard PROFINET alarm and diagnostics reporting.
- Supports configuration using Classless InterDomain Routing (CIDR) with subnetting and supernetting.
- Each network interface module can be connected into a daisy-chain/line, star, or ring (redundant media) topology.
- Supports Media Redundancy Protocol (MRP) client mode operation.
- Can be upgraded in the field; supports firmware updates via USB port.
- Provides Maintenance Mode to allow servicing of the remote node while maintaining network connections. (Requires firmware version 1.10 or later.)

Note: The USB port is for firmware upgrades only. It is not intended for permanent connection



The PNS module’s main Remote IO functions include:

- Scanning all the modules within its stick (input and output scan).
- Publishing data onto the PROFINET network to an IO-Controller at a customer-specified production period.
- Receive data from an IO-Controller on the PROFINET network at a customer-specified production period.
- Managing PROFINET communication and module configuration between an IO-Controller and modules within the PNS node.
- Managing the state of the I/O when communications is lost
- Publishing fault information (alarms, diagnostics, etc.) to IO-Controller

Ordering Information

IC200PWR002	24 VDC Expanded 3.3 V Power Supply
IC200PWR012	24 VDC Expanded Isolated 3.3 V Power Supply
IC200PWR102	120/240 VAC Expanded 3.3 V Power Supply
IC200ACC200	Empty Filler Module, optional

GFK-2574A

Specifications

PROFINET Support	PROFINET Version 2.2 Class A IO-Device	
Power Consumption	IC200PNS001: 0.60A at 5VDC IC200PNS002: 1.10A at 5VDC	
Module Dimensions	Height: 132mm (5.2 inches), Width: 134mm (5.28 inches)	
Carrier Required	No. Carrier is integrated into the module	
Operating Temperature Range	0 to 60°C surrounding air temperature without a fan	
Number of Port Connectors	IC200PNS001: Two RJ-45 IC200PNS002: Two SC-Duplex	
USB Connector (for firmware upgrades)	One Micro-B connector. USB 2.0 compliant running at Full-speed (12 MHz).	
PNS Status and Control Bits	32 input status bits and 32 output control bits	
I/O Data Update on the PROFINET LAN	Configurable: 1ms, 2ms, 4ms, 8ms, 16ms, 32ms, 64ms, 128ms, 256ms and 512ms	
Number of IP addresses	One. Supports Classless Inter-Domain Routing (CIDR)	
Number of MAC Addresses	Three. One per external port and one internal. External MAC addresses are only used for specialized Ethernet protocols such as MRP or LLDP	
I/O Station Maximum Limits	Number of I/O Modules per station	Eight
	I/O data per station	2880 bytes total 1440 bytes of input data 1440 bytes of output data
RoHS Compliance	Yes	
Configuration	Configured using Proficy* Machine Edition when used with a PACSystems RX3i PROFINET Controller (PNC) module, as part of an RX3i PROFINET network. V2.2 GSDML file available for import into 3 rd -Party tools.	

For product standards, general operating specifications, and installation requirements, refer to the *VersaMax I/O Modules Manual*, GFK-1504.

For PNS installation, configuration and operating information, refer to the *VersaMax PROFINET Scanner User's Manual*, GFK-2721

Manuals can be downloaded from the Support website, <http://support.ge-ip.com>.