

IMPORTANT PRODUCT INFORMATION

READ THIS INFORMATION FIRST

PACSystems* RSTi Network Interface and IO

Discrete Input Module	ST-1114-AA, ST-1124-AA, ST-1214-AA, ST-1218-AA, ST-121F-AA, ST-1224-AA, ST-1228-AA, ST-122F-AA, ST-1314-AA, ST-131F-AA, ST-1324-AA, ST-1804-AA, ST-1904-AA
Discrete Output Modules	ST-2114-AA, ST-2124-AA, ST-221F-AA, ST-222F-AA, ST-2314-AA, ST-2318-AA, ST-2324-AA, ST-2328-AA, ST-2414-AA, ST-2424-AA, ST-2514-AA, ST-2524-AA, ST-2742-AA, ST-2744-AA, ST-2748-AA, ST-2852-AA
Analog Input Modules	ST-3114-AA, ST-3118-AA, ST-3134-AA, ST-3214-AA, ST-3218-AA, ST-3234-AA, ST-3424-AA, ST-3428-AA, ST-3444-AA, ST-3524-AA, ST-3544-AA, ST-3624-AA, ST-3644-AA, ST-3702-AA, ST-3704-AA, ST-3708-AA, ST-3802-AA, ST-3804-AA, ST-3808-AA
Analog Output Modules	ST-4112-AA, ST-4114-AA, ST-4212-AA, ST-4214-AA, ST-4274-AA, ST-4422-AA, ST-4491-AA, ST-4522-AA, ST-4622-AA, ST-4911-AA
I/O Bus NIU Modules	STXPBS001-AA, STXPBS032-AA, STXPBS132-AA, STXPBS232-AA, STXPBS332-AA, STXPBS432-AA, STXPBS532-AA, STXPNS001-AA
Specialty Modules	ST-5101-AA, ST-5111-AA, ST-5112-AA, ST-5114-AA, ST-5211-AA, ST-5212-AA, ST-5221-AA, ST-5231-AA, ST-5232-AA, ST-5351-AA, ST-5422-AA, ST-5442-AA, ST-5444-AA, ST-5641-AA, ST-5642-AA, ST-5651-AA
System Modules	ST-7008-AA, ST-7108-AA, ST-7108-AA, ST-7111-AA, ST-7188-AA, ST-7241-AA, ST-7408-AA, ST-7508-AA, ST-7511-AA, ST-7518-AA, ST-7588-AA, ST-7641-AA

Documentation

Manuals:

PACSystems RSTi I/O User Manual, GFK-2745

PACSystems RSTi Network Adapter User Manual, GFK-2746

Quick Guides:

RSTi Slice IO Discrete Input Modules, GFK-2763

RSTi Slice IO Discrete Output Modules, GFK-2764

RSTi Slice IO Analog Input Modules, GFK-2765

RSTi Slice IO Analog Output Modules, GFK-2766

RSTi Slice IO Power and Extension Modules, GFK-2767

RSTi Slice IO High Speed Counter, SSI, PWM and Pulse Output Modules, GFK-2768

RSTi Slice IO Serial Interface Module, GFK-2769

RSTi Slice IO PROFIBUS Network Adapter, GFK-2770

RSTi Slice IO PROFINET Network Adapter, GFK-2771

RSTi PROFIBUS Network Adapter with Integrated IO, GFK-2772

The most recent user documents are available on the Support website: <http://www.ge-ip.com/support>

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Restrictions and Open Issues

Subject	Description
Clearing the RX3i controller memory when a configuration mismatch fault for a Slice IO node exists causes Proficy Machine Edition (PME) software to disconnect and the RX3i PNC001 to auto reset.	This fault can occur when an RX3i PNC module is connected to a Slice IO node that has a STXPNS001 PROFINET Network Adapter and IO modules. If there is a configuration mismatch of the Slice IO node, a <i>loss of device</i> fault is logged in the IO fault table. In this situation, if you try to clear the RX3i CPU user memory, PME disconnects from the RX3i controller. After the PME connection is lost, if you try to reconnect to the RX3i CPU, the RX3i PNC performs an auto reset. To recover from this fault, wait for the PNC to auto reset and the OK LED to glow solid green, then clear the RX3i CPU user memory or power cycle the RX3i controller without battery. Storing a valid configuration restores system operation without faults.
RSTi PROFINET Adapter receives a bus error when used with ST-5xxx, ST-4xxx and ST-3xxx modules.	RSTi PROFINET Adapter STXPNS001 fails due to bus error when configured with certain ST-5xxx, ST-4xxx and ST-3xxx modules. (Refer to “Modules Requiring Update Rate $\geq$ 32ms When Used with STXPNS001” on page 3 for part numbers of the modules.) The failure occurs when the update rate is set to a value less than 32ms. Reaction of the node to the bus error depends on the value of the parameter <i>Reaction to bus error</i> in STXPNS001 parameter setting tab in PME. To avoid this issue, set the update rate to 32ms or above when any of the modules listed are configured with STXPNS001.
Slice IO node system power up sequence issue.	If the Network Adapter and ST-7xxx Power modules on the same Slice IO node are power cycled at different times, the Network Adapter may power up in fault mode. To recover from the fault, power cycle the node such that Network Adapter and Power modules are power cycled together or the node is powered up following the sequence such that the power module farthest from the Network Adapter is powered up first. For example in a node having modules as below: STXPNS001+IO Modules ... +ST-7511+IO Modules ... +ST-7511+IO Modules In the above system power cycle the STXPNS001 and the two ST-7511 modules together or power OFF the entire node and then power ON the second ST-7511 and then the first ST-7511 and then the STXPNS001.
RSTi PROFIBUS Network Adapter is unstable at baud rates less than or equal to 187.5kbps. Continuous loss and addition of the IO node occurs.	DPV1 commands are not supported in this release for the PROFIBUS Network Adapters STXPBSxxx.

GFK-2783

Modules Requiring Update Rate $\geq 32\text{ms}$ When Used with STXPNS001

GE Catalog No.	Description
ST-3114-AA	AI 4 Channels, 0~20mA, 12-bit
ST-3118-AA	AI 8 Channels, 0~20mA, 12bit
ST-3134-AA	AI 4 Channels, 0~20mA, 14-bit
ST-3214-AA	AI 4 Channels, 4~20mA, 12-bit
ST-3218-AA	AI 8 Channels, 4~20mA, 12bit
ST-3234-AA	AI 4 Channels, 4~20mA, 14-bit
ST-3424-AA	AI 4 Channels, 0~10Vdc, 12-bit
ST-3428-AA	AI 8 Channels, 0~10V, 12bit
ST-3444-AA	AI 4 Channels, 0~10Vdc, 14-bit
ST-3524-AA	AI 4 Channels, -10~+10Vdc, 12-bit
ST-3544-AA	AI 4 Channels, -10~+10Vdc, 14-bit
ST-3624-AA	AI 4 Channels, 0~5Vdc, 12-bit
ST-3644-AA	AI 4 Channels, 0~5Vdc, 14-bit
ST-3702-AA	AI 2 Channels, RTD
ST-3704-AA	AI 4 Channels, RTD Connector Type
ST-3708-AA	AI 8 Channels, RTD Connector Type
ST-3802-AA	AI 2 Channels, Thermocouple
ST-3804-AA	AI 4 Channels, Thermocouple Connector Type
ST-3808-AA	AI 8 Channels, Thermocouple Connector Type
ST-4114-AA	AO 4 Channels, 0~20mA, 12bit
ST-4214-AA	AO 4 Channels, 4~20mA, 12bit
ST-4424-AA	AO 4 Channels, 0~10Vdc, 12bit
ST-4522-AA	AO 2 Channels, -10~+10Vdc, 12-bit
ST-5101-AA	High Speed Counter, 1 Channel, 5VDC 1.5MHz
ST-5111-AA	High Speed Counter, 1 Channel, 24VDC 1.5MHz
ST-5112-AA	High Speed Counter, 2 Channel, 24VDC, 100Khz
ST-5114-AA	High Speed Counter, 4 Channel, 24VDC, 50Khz
ST-5351-AA	SSI Interface 1 CH; 62.5K, 100K, 125K, 250K, 500K, 1M, 2Mbps
ST-5422-AA	PWM Out, 2A/24V, Source, 2 Channels 2.5Khz
ST-5442-AA	2Ch, PWM Out, 0.5A/24V, Source, 2.5Khz
ST-5444-AA	PWM Out, 0.5A/24V, Source, 4 Channels, 2.5Khz
ST-5641-AA	1 CH, Pulse Out, 0.5A/24V, Source, 20Khz
ST-5642-AA	2 CH, Pulse Out, 0.5A/24V, Source, 20Khz
ST-5651-AA	1 CH, Pulse Out, 0.5A/5V (RS422), 20Khz

Operational Notes

Subject	Description
Loss of device fault occurs when STXPNS001 PROFINET Network Adaptor is used without IO module.	When the Slice IO PROFINET Network Adapter module does not have an IO module attached, it will not communicate with the RX3i PNC. The Network Adapter NET LED blinks RED, indicating invalid configuration and a <i>Loss of device</i> fault is logged in RX3i IO Fault table. At least one IO module has to be present for the Network Adapter to establish the communication with RX3i PNC.