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Release Notes

1784-PCIDS Series A, 1784-CPCIDS Series A
Firmware 2.008
Driver 1.20.01

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System Requirements

The DeviceNet scanner card requires the following minimum configuration:

- A 100MHz Pentium processor (200MHz Pentium recommended)
- 32MB of RAM (128MB recommended)
- 256-color video
- PC with one of the following operating systems:
    - Microsoft Windows NT 4.0 Service Pack 5 or higher
    - Microsoft Windows 2000 Service Pack 1 or higher
    - Microsoft Windows XP

RSNetWorx for DeviceNet 2.11.51 or later is required to configure the scanner card and DeviceNet network.

SoftLogix Requirements

SoftLogix5800 8.03 or later is required. If a previous version of SoftLogix5800 was controlling I/O in RUN mode via the DeviceNet scanner card and the host PC blue screened or locked up, the outputs would stay on in RUN mode until the PC was rebooted.

SoftLogix 5 2.1.1 or later is required.

Installation and Use

For information on installing the 1784-PCIDS DeviceNet scanner card and driver, refer to the 1784-PCIDS Installation Instructions, Publication 1784-IN004D-EN-P.

For information on installing the 1784-CPCIDS DeviceNet scanner card and driver, refer to the 1784-CPCIDS Installation Instructions, Publication 1784-IN036B-EN-P.

For information on using the DeviceNet scanner card, refer to the User Manual, Publication 1784-6.5.30.

For information on updating the firmware in an old DeviceNet scanner card, refer to the Firmware folder. **IMPORTANT:** If you are using the card that came with this package, then your card already has the correct firmware. NO FIRMWARE UPDATE IS REQUIRED IN THIS CASE.

Included Documentation

We have included supplementary documentation for your convenience. This documentation is located in the Documentation folder and includes publications pertinent to the DeviceNet scanner card and other related products. Adobe Acrobat Reader (included on the CD-ROM) is required to view this documentation.

NOTE: Due to its size, Adobe Acrobat Reader is not included in the IOLinx compressed file when downloaded from the Web. Please visit http://www.adobe.com/ to download Adobe Acrobat Reader.

For more information about any of this documentation, contact your local Rockwell Automation sales representative or distributor. To download additional free documentation or to order printed documentation, visit the Rockwell Automation Literature Library at http://literature.rockwellautomation.com/.

Corrected Anomalies in Driver 1.20.01

1. The driver was modified so that if the card goes offline due to no DeviceNet network power, the driver configured in RSLinx Classic will continue to function. Previously, the RSLinx driver would have to be deleted and recreated after network power is cycled.

Corrected Anomalies in Driver 1.18.01

1. The card now properly starts after the host PC is rebooted and SoftLogix5800 and RSLinx are configured for automatic startup. Previously, the 1784-PCIDS could appear with a red-X in the SoftLogix5800 Chassis Monitor after the host PC was rebooted.

Known Anomalies

1. Automatic Device Replacement (ADR) functionality allows you to simply replace the failed device on the DeviceNet network and the scanner automatically commissions the original node address and downloads the original device parameters into the new device.

   ADR Restrictions:

   - o Both Configuration Recovery and Node Address Recovery can only be used with devices that are in the scanlist of the scanner.
   - o Node Address Recovery can only be enabled for a device if Configuration Recovery is also enabled.

   ADR Known Limitations:

   - o Configuration Recovery will not work with a 1761-NETDNI.
   - o When Configuration Recovery is enabled for a DeviceNet Flex adapter (1794-ADN), configuration changes made with a software tool will not hold. This is because part of the download sequence to the 1794-ADN is a Reset command, which causes the scanner to momentarily lose its connection to the 1794-ADN while it is restarting. Before scanning the 1794-ADN again, the scanner will download the stored configuration overwriting the change made with the software tool. The workaround is to disable Configuration Recovery before modifying the configuration for the 1794-ADN and then re-enable it after the changes are made.
   - o Configuration Recovery cannot be enabled for devices that have no writeable (software configurable) parameters (e.g., RediStation).
   - o Node Address Recovery will not work for devices that do not support changing the Node Address over the network (i.e., products that use hardware switches for the node address).

2. The card may not recover properly if PC power is removed without first shutting down Windows. **RECOVERY:** After this situation occurs, **properly** shutdown your PC and cycle power.

3. When the DeviceNet baud rate of the DeviceNet scanner card is changed, only one other device is on the network, and that device is an autobaud device, the baud rate change does not take affect until you reboot the PC containing the scanner card. **WORKAROUND:**

   a. Delete all RSLinx drivers previously created for the DeviceNet scanner card at the old baud rate.

b. Power down the PC containing the DeviceNet scanner card. **IMPORTANT:** Restarting your PC is **not** sufficient. You **must** cycle power.

c. Power down the other devices on the DeviceNet network and remove network power from all of the devices on the network, including the DeviceNet scanner card.

d. Power up all devices on the DeviceNet network (except for the PC containing the DeviceNet scanner card) and apply network power.

e. Power up the PC.

f. Configure the DeviceNet scanner card for the desired new baud rate using DeviceNet Test or RSLinx.

4. You cannot put four 1784-PCIDS cards in an RAC 6155 PC if the PC is running Windows NT 4.0. **WORKAROUND:** Upgrade the PC operating system to Windows 2000 or Windows XP.

5. Whenever the driver is installed and RSLinx is running, but the card is removed from the PC, the driver adds many entries to the system event log. **WORKAROUND:** If you remove the card from your PC, uninstall the driver.

6. The card must be reconfigured after the host PC is rebooted before starting SoftLogix 5. **WORKAROUND:** Either 1) use driver version 1.16 or 2) reconfigure the 1784-PCIDS ports after every reboot before starting SoftLogix 5.

Windows 2000/XP Notes

1. We recommend that you update your PC's BIOS to one that supports Windows 2000/XP before installing Windows 2000/XP. Contact your PC manufacturer for more information.

2. If the driver for the DeviceNet scanner card is started, then the standby and hibernation options will not be available from Start->Shutdown or from Start->Settings->Control Panel->Power Options. This is to prevent your PC from entering standby or hibernation while controlling I/O.

IOLinx SDK

The IOLinx Software Development Kit (SDK) helps you to design your software application to control and collect information without forcing you to become an expert on the hardware and network complexities. The IOLinx SDK documents the IOLinx API function calls and the methods by which software applications interface with the API to

read and write data to and from the scanner cards. Using the IOLinx SDK, you can develop applications to communicate to scanner cards for direct control of sensors, actuators, discrete and analog I/O, drives, operator interfaces and other I/O devices. Order catalog number 9230-IOLINXSDK.

<u>Rockwell Automation Support</u>

Rockwell Automation provides technical information on the web to assist you in using our products. At http://support.rockwellautomation.com/, you can find technical manuals, a knowledge base of FAQs, technical and application notes, sample code and links to software service packs, and a MySupport feature that you can customize to make the best use of these tools.

For an additional level of technical phone support for installation, configuration and troubleshooting, we offer TechConnect Support programs. For more information, contact your local distributor or Rockwell Automation representative, or visit http://support.rockwellautomation.com/.

For more information about Rockwell Automation network products, visit the Rockwell Automation Networks web site at http://www.ab.com/networks/.

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Last Updated: March 31, 2005