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## Release Notes for DeviceNet Universal PCI Scanner Card

### 1784-PCIDS Series B Firmware 3.016 Driver 2.01

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### System Requirements

The 1784-PCIDS DeviceNet Universal PCI scanner card requires the following minimum configuration:

- PC with one of the following operating systems:
  - Microsoft Windows XP with Service Pack 1 or higher
  - Microsoft Windows 2000 with Service Pack 4 or higher

Microsoft Windows NT 4.0 is **not** supported.

- Rockwell Software RSLinx 2.42.00 or later
- Rockwell Software RSNetWorx for DeviceNet 2.11.51 or later

### SoftLogix Requirements

If you are using SoftLogix with your 1784-PCIDS card, the following minimum releases are required:

- SoftLogix5800 8.03 or later
- SoftLogix 5 2.1.1 or later

### PCI Compatibility

The 1784-PCIDS Series B card is compatible with 5V and 3.3V PCI slots, 32-bit and 64-bit PCI slots, and PCI-X slots. The 1784-PCIDS card is **not** compatible with PCI Express and should **not** be inserted into a PCI Express slot.

## **Driver Compatibility**

Driver version 2.01 or later supports the following DeviceNet PCI cards:

- 1784-PCIDS Series B
- 1784-PCIDS Series A

## **Installation**

Follow these steps to install a new 1784-PCIDS card.

1. Install IOLinx for DeviceNet software.
2. Turn off power to your PC and insert the 1784-PCIDS card into a vacant PCI local bus expansion slot.
3. Turn on power to your PC and follow the instructions presented by the New Hardware Found Wizard. When prompted for the drivers for the card, browse to x:\Program Files\Rockwell Software\IOLinx\IOLinx for DeviceNet\Drivers where x:\ is the drive where IOLinx is installed.

For detailed instructions on installing and configuring the 1784-PCIDS card, refer to Publication 1784-IN004.

The ControlFLASH kit for updating the firmware in a 1784-PCIDS Series B card is located in 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.**

## **IOLinx API**

The 1784-PCIDS card supports the IOLinx API. For instructions on creating your own custom control applications using the IOLinx API, contact your local Rockwell Automation sales representative or distributor regarding the IOLinx SDK, catalog number 9230-IOLINXSDK. 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 card. 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.

## Documentation

Supplementary documentation is included for your convenience. This documentation is located in the Documentation folder and includes manuals, brochures, and selection guides for Rockwell Automation products. For more information about any of this documentation, contact your local Rockwell Automation sales representative or distributor.

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/>.

## Known Anomalies

1. The 1784-PCIDS 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.
2. When the DeviceNet baud rate of the 1784-PCIDS card is changed, the baud rate change does not take affect until you reboot the PC containing the 1784-PCIDS card. Follow these steps to ensure that the DeviceNet baud rate is changed:
  - a. Delete the 1784-PCIDS driver from the driver configuration in the RSLinx. If you are using the 1784-PCIDS card with SoftLogix5800, remove the 1784-PCIDS from the SoftLogix5800 chassis.
  - b. Power down the PC containing the 1784-PCIDS 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 1784-PCIDS card.
  - d. Except for the 1784-PCIDS card, set any fixed baud rate devices to the desired new baud rate. Refer to the installation instructions for the specific device for details on setting the baud rate. Power up all devices on the DeviceNet network, except for the PC containing the 1784-PCIDS card, and apply network power.
  - e. Power up the PC containing the 1784-PCIDS.

- f. Configure the 1784-PCIDS card for the desired new baud rate by using RSLinx, the SoftLogix5800 chassis monitor, or DeviceNet Test.
3. If RSLinx is running and the 1784-PCIDS driver is configured in RSLinx, but the card is removed from the PC, numerous entries will appear in the system event log. **WORKAROUND:** If you remove the card from your PC, delete the 1784-PCIDS driver from the driver configuration in RSLinx. You do **not** have to uninstall IOLinx for DeviceNet.
4. The host PC's Device Manager may report that "No drivers are installed for this device" even though the driver is correctly installed. Perform the following steps on the host PC to verify that the driver is installed:
  - a. Select Start, then right-click on My Computer.
  - b. Select Manage.
  - c. On the Computer Management screen that appears, select Device Manager.
  - d. Click on Allen-Bradley PCI Family to expand the list.
  - e. Right-click on the "Allen-Bradley 1784-PCIDS" that corresponds to the 1784-PCIDS card in question and select Properties.
  - f. Click on the Driver tab, then click Driver Details.

The Driver File Details dialog box should list the driver file "pcidnt.sys" along with the file version number. If you are prevented from navigating to the Driver File Details dialog box or if the driver file version does not match the version that you installed, repeat the driver installation procedure.

5. The card must be reconfigured after the host PC is rebooted before starting SoftLogix 5. **WORKAROUND:** Reconfigure the 1784-PCIDS after every reboot before starting SoftLogix 5.
6. When using ControlFLASH to flash update the 1784-PCIDS card, the card must be connected to a powered DeviceNet network with at least one other DeviceNet device.

### **Rockwell Automation Support**

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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