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Find the *SIIG Cyber PCI* at our website: *Click HERE*

Cyber PCI I/O
Quick Installation Guide

Introducing the *Cyber PCI I/O*

The *Cyber PCI I/O* high-speed serial and parallel I/O card family provides a complete solution for serial and parallel device connections. It provides 16550/16650/16850 UART serial port(s) which supports data transfer rates up to 920Kbps and ECP/EPP parallel port(s) which supports data transfer rates up to 2MB/sec. Since this installation guide is written for all *Cyber PCI I/O* boards, some features on this installation guide might not be present on the model you bought. Please only refer to the features that apply to your board.

Features and Benefits

- Conforms to PCI v2.1 Plug and Play
- Full support for DOS- and Windows-based software
- Improves I/O access speed up to 8 times faster than existing ISA-bus serial ports. Reduces CPU load and improves system performance dramatically
- IRQ sharing feature eliminates IRQ conflicts

Serial interface:

- High-speed 16550/16650/16850 UART serial port (9-pin) supports baud rates up to 920Kbps. Works with 56K V.90 external modems, ISDN terminal adapters, PDAs, digital cameras, label printers and other serial port devices
- Built-in 16/32/128-byte FIFO buffers dramatically increase data transmit/receive speed, especially under Windows multitasking environment

Parallel interface:

- Conforms to IEEE 1284-1994 parallel port standard
- High-speed parallel port supports various types of parallel port devices including removable cartridge drives, CD-R/RWs, printers, SuperDisk™ LS-120 drives, scanners and more
- Supports EPP, ECP(PIO mode), Bi-directional Parallel Port (BPP) and Standard Parallel Port (SPP) modes

System Requirements

- Pentium or equivalent computer with an available 32-bit PCI slot
- DOS / Windows 3.1x, Windows 95 / 98 / 98 SE / ME / NT 4.0 / 2000 / XP

Package Contents

- One *Cyber PCI I/O* board
- One floppy driver diskette
- One 5-year warranty card
- This quick installation guide

Hardware Installation

General instructions for installing the card are provided below, since the design of computer cases and motherboards vary. Refer to your computer's reference manual for further information, if needed.

Caution: Static Electricity Discharge may permanently damage your system. To avoid possible static electricity discharge during the installation, please follow the guidelines below:

- Discharge any static electricity build up in your body by touching a large grounded metal surface or the computer's case (if plugged in), for a few seconds.
- During the installation, avoid any contact with internal parts. Handle cards only by their external edges.

1. Turn OFF the power to your computer and any other connected peripheral devices.
2. Unplug the power cord from the back of the computer.
3. Remove your computer's cover.
4. Remove the slot bracket from an available PCI slot.
5. To install the card, carefully align the card's bus connector with the selected PCI slot on the motherboard. Push the board down firmly, but gently, until it is well seated.
6. Replace the slot bracket's holding screw to secure the card.
7. Replace the computer cover and reconnect the power cord.

Software Installation

This section provides information on how to install the *Cyber PCI I/O*'s drivers for the following operating systems:

Windows 95 / 98 / 98 SE / ME
Windows NT 4.0
Windows 2000 / XP
DOS / Windows 3.1x

Windows 95 Driver Installation

1. At the **Add New Hardware Wizard** window, click **Next**.
2. Insert the Driver Installation diskette in the floppy drive, and click **Other Locations**. Type in **a:\Win95**, click **OK**, then **Finish**.
3. From the **Insert Disk** window, click **OK**. When the **Copying Files** dialog box appears, type in **a:\Win95,** then click **OK**.
4. Remove the diskette and select **Yes** to restart your system.

Windows 98/98 SE Driver Installation

1. At the **Add New Hardware Wizard** window, click **Next**.
2. Select **Search for the best driver for your devices (Recommend)**, then click **Next**.
3. Select **Specify a location**, insert the Driver Installation diskette and type in **a:\Win98,** then click **Next**.
4. Click **Next,** then **Finish**.
5. Remove the diskette and click **Yes** to restart your system.

Windows ME Driver Installation

1. At the **Add New Hardware Wizard** screen, choose **Specify the location of the driver (Advanced),** then click **Next.**
2. Check **Specify a location**, insert the Driver Installation diskette into your floppy drive, type in **A:\Win98,** then click **Next.**
3. Click **Next**, and **Finish** to complete driver installation.
4. Remove the driver diskette and click **Yes** to restart Windows.

To verify successful installation in Windows 95/98/98 SE/ME:

1. From the main desktop, double click **My Computer**, **Control Panel**, **System**, then click **Device Manager**.
2. Double click **Ports (COM & LPT)** and new **Cyber PCI** ports should be displayed. Also, double click **SIIG Cyber PCI** option and **SIIG ... PCI Board** should be displayed.

   The board is ready to connect new devices.

Windows NT 4.0 Driver Installation

1. From the desktop click **Start,** then **Run**.
2. Insert the Driver Installation diskette, type in **A:\NT4\setup,** then click **OK**.
3. Click **Next** when the **Welcome** window appears.
4. From **Choose Destination Location** window, click **Next**.
5. Remove the Driver Installation diskette, select **Yes** to restart Windows and click **Finish**.

To verify successful installation in Windows NT 4.0:

1. Go to **Start / Setting / Control Panel**, double click **SIIG Cyber PCI 20X** device icon.
2. New **COM** port address and **LPT** number will be assigned for the ports when successfully installed. The board is ready to connect devices.

   Note If you plan to connect a parallel device other than a printer to the parallel port, such as zip drive, or scanner, please follow the next section to change the port's I/O address to support these devices.

To change the I/O address in Windows NT 4.0:

1. Double click **Start, Settings, Control Panel**, then **SIIG Cyber PCI 20X** device icon.
2. Highlight the LPT or COM address and click **Settings**.
3. Select or type in an I/O address supported by the device you would like to configure and click **OK**. Make sure the selected I/O address does not conflict with other device in your system.
4. Select **Restart Now** for the new setup to take effect.

Windows 2000 Driver Installation

Windows 2000 will automatically detect and install the correct driver for the **CyberSerial PCI** and **CyberParallel PCI** boards. For the rest of the *Cyber PCI I/O* boards, please follow the instructions below:

1. At the **New Hardware Wizard**, click **Next**.
2. Select **Search for a suitable driver for my device (recommended)** and click **Next**.
3. Select **Specify a location**, uncheck the other options and click **Next**.
4. Insert the Driver Installation diskette, type in **A:\Win2K** and click **OK**.
5. Click **Next** and **Finish** to complete driver installation.

To verify successful installation in Windows 2000:

1. Double click **My Computer**, **Control Panel**, **System**, **Hardware**, and click **Device Manager**.
2. Click on the + (plus sign) in front of **Ports (Com & LPT)**.
3. New **Cyber port(s)** should be listed.

Windows XP Driver Installation

Windows XP will automatically detect and install the correct driver for the **CyberSerial PCI** and **CyberParallel PCI** boards. For the rest of the *Cyber PCI I/O* boards, please follow the instructions below:

1. At the **Found New Hardware Wizard**, choose **Install from a list or specific location (Advanced)**, and click **Next**.
2. Insert the Driver Installation diskette, check **Include this location in the search:** and uncheck the other check box.
3. Type in **A:\win2k** and click **Next**.
4. At the next Window, **Hardware Installation**, click **Continue Anyway**, then **Finish**.
5. Repeat steps 1-4 X* more times to complete driver installation.

   * X = the number of ports on the board

To verify successful installation in Windows XP:

1. Right click **My Computer**, click **Manage**, then select **Device Manager**.
2. Click on the + (plus sign) in front of **Ports (Com & LPT)**.
3. New **Cyber port(s)** should be listed.

DOS/Windows 3.1x Driver Installation

1. Insert the Driver Installation diskette, from the C: prompt, type in **copy a:\dos*.*,** then press **<Enter>**.
2. Type in **edit autoexec.bat,** then press **<Enter>**.
3. Add **C:\CB20XPC.exe** at the bottom of the autoexec.bat file.
4. Go to **File**, save the changes and exit.
5. Remove the diskette and restart the system for the new setup to take effect.

Troubleshooting

Problem: I am installing a parallel port(s) and my system freezes up when Windows tries to install the driver for my printer port.

Solution: Enter your system bios, set the onboard parallel port I/O address to 278h, save and exit. In certain systems, the address 278h is reserved for ISA boards. So when the PCI parallel port tries to capture this address, your system gets confused and freezes up.

Technical Support

QUESTIONS? SIIG's **Online Support** has the answers! Simply visit our web site at ***www.siig.com*** and click on **SUPPORT**. Our online support database is updated daily with new drivers and solutions. The answers to your problems could be just a few clicks away.

Return Merchandise Authorization (RMA)

SIIG warrants to the original buyer of the product that the hardware is free of defects in materials and workmanship for a period of one, two or five years from the date of purchase. If your product fails to be in good working order during the warranty period, you may return it to SIIG for repair or replacement at SIIG's option.

To return the product, you need to follow these steps.

Step 1: Contact SIIG's RMA Department

To obtain an RMA number, SIIG's RMA Department can be reached by phone at **(510)413-5333** or fax at **(510)657-5962** or email at **service@siig.com.** In order to issue an RMA number, the product serial number is required. This number can be found on the side of the box and on the back of the product.

Step 2: Complete the RMA form

- Fill out your Return Merchandise Authorization (RMA) form, and include it in the package with the product.
- Properly pack the product for shipping. All software, cable(s) and other accessories that came with the original package **must be included**.
- Clearly write your RMA number on the top of the returned package and on the accompanying RMA form.

  SIIG will refuse to accept any shipping package, and will not be responsible for a product returned without an RMA number posted on the outside of the shipping carton.

Step 3: Ship the Product

You are responsible for the cost of shipping back to SIIG at the following address:

SIIG, Inc. RMA#_____
6078 Stewart Ave.
Fremont, CA 94538

SIIG will ship the repaired or replaced product via UPS Ground or US Mail at no cost to you.

PRODUCT NAME	MODEL NUMBER
Cyber PCI I/O	IO18xx

FCC RULES: TESTED TO COMPLY WITH FCC PART 15, CLASS B
OPERATING ENVIRONMENT: FOR HOME OR OFFICE USE

FCC COMPLIANCE STATEMENT:

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC NOTICE:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio and television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and the receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected
- Consult the dealer or an experienced radio or TV technician for help

Caution:

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment

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6078 Stewart Ave.
Fremont, CA 94538-3152

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