



# Low Profile PCI I/O Quick Installation Guide

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## **Introducing the *Low Profile PCI I/O***

The *Low Profile PCI I/O* conforms to the new PCI card form factor standard made for space constrained system designs. Since this installation guide is written for both, *Low Profile PCI -1S* and *Low Profile PCI -1P* 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 v2.2 Plug and Play
- Full support for DOS- and Windows-based software
- IRQ sharing feature eliminates IRQ conflicts

### **Serial interface:**

- High-speed 16550 UART serial port (9-pin) supports baud rates up to 920Kbps. Works with various types of serial devices
- Built-in 16-byte FIFO buffers dramatically increase data transmit/receive speed

### **Parallel interface:**

- Conforms to IEEE 1284-1994 parallel port standard
- High-speed parallel port supports various types of parallel port devices
- Supports EPP, ECP(PIO mode), Bi-directional Parallel Port (BPP) and Standard Parallel Port (SPP) modes

## **Dimensions:**

- PCB: 119.91 mm (L) x 64.41 mm (H)
- Bracket: 18.42 mm (W) x 79.20 mm (H)

## **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

## **Package Contents**

- One *Low Profile PCI I/O* board
- One Driver Installation 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.

Static Electricity Discharge may permanently damage your system. Discharge any static electricity build up in your body by touching your computer's case for a few seconds. Avoid any contact with internal parts and handle cards only by their external edges.

1. Turn OFF the power to your computer and any other connected peripheral devices. Unplug the computer's power cord.
2. Remove your computer's cover and install the card in an available PCI slot.
3. Push the board down firmly, but gently, until it is well seated.
4. Secure the card and replace the cover.

## **Software Installation**

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

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

### **Windows 95:**

1. At the **Add New Hardware Wizard** windows, 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 the computer for the setup to take effect.

#### **Windows 98/98 SE:**

1. At the **Add New Hardware Wizard** windows, 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:**

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:**

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:**

Windows 2000 will automatically detect and install the correct driver for **Low Profile PCI -1S** and **Low Profile PCI -1P**.

**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.

**DOS/Windows 3.1x:**

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

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**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.

**Problem:** I am installing serial port(s) and these ports show up without COM port assignment or they show up as COM5 and COM6 instead of conventional COM3 and COM4.

**Solution:** Enter your system bios, under Peripherals Configuration, set the first onboard serial port to 03F8, IRQ 4 instead of AUTO. Set the second onboard serial port to 02F8, IRQ3 instead of AUTO, if applicable. Also, under PnP or PCI Configuration, turn Off or disable PnP OS.

**Problem:** I have an Intel Celeron system, and when I install a serial port, it gets assigned to COM5 or above. My serial device only works from COM1 to COM4.

**Solution:** Please visit our web site at **WWW.SIIG.COM**, go to **Driver Update** page, and download an appropriate driver for your Intel Celeron system.

For more troubleshooting tips and driver updates, please visit our web site at **WWW.SIIG.COM** and go to **Online Support** or **Driver Update**.

## Technical Support

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**QUESTIONS?** SIIG's **Online Support** has the answers! Simply visit our web site at [www.siig.com](http://www.siig.com) and click on **ONLINE 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)

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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](mailto: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**

Low Profile PCI I/O

**MODEL NUMBER**

LP04xx

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

**THE PARTY RESPONSIBLE FOR  
PRODUCT COMPLIANCE**

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