

**Sensoray Model 327  
PCI to PC/104-Plus Adapter**

Revised June 02, 1999

**Sensoray Co. Inc.  
7313 SW Tech Center Drive  
Tigard, OR 97223  
503-684-8005 Phone 503-684-8164 Fax  
[sales@sensoray.com](mailto:sales@sensoray.com) [www.sensoray.com](http://www.sensoray.com)**

# **TABLE OF CONTENTS**

<b>LIMITED WARRANTY.....</b>	<b>4</b>
<b>SPECIAL HANDLING INSTRUCTIONS.....</b>	<b>4</b>
<b>1. INTRODUCTION .....</b>	<b>5</b>
<b>2. SPECIFICATIONS .....</b>	<b>5</b>
<b>3. INSTALLATION.....</b>	<b>5</b>
3.1. INSTALLATION .....	5
3.2. CONFIGURATION.....	5
<b>4. TECHNICAL SUPPORT .....</b>	<b>5</b>

## Limited Warranty

---

Sensoray Company, Incorporated (Sensoray) warrants the Model 327 hardware to be free from defects in material and workmanship and perform to applicable published Sensoray specifications for two years from the date of shipment to purchaser. Sensoray will, at its option, repair or replace equipment that proves to be defective during the warranty period. This warranty includes parts and labor.

The warranty provided herein does not cover equipment subjected to abuse, misuse, accident, alteration, neglect, or unauthorized repair or installation. Sensoray shall have the right of final determination as to the existence and cause of defect.

As for items repaired or replaced under warranty, the warranty shall continue in effect for the remainder of the original warranty period, or for ninety days following date of shipment by Sensoray of the repaired or replaced part, whichever period is longer.

A Return Material Authorization (RMA) number must be obtained from the factory and clearly marked on the outside of the package before any equipment will be accepted for warranty work. Sensoray will pay the shipping costs of returning to the owner parts that are covered by warranty.

Sensoray believes that the information in this manual is accurate. The document has been carefully reviewed for technical accuracy. In the event that technical or typographical errors exist, Sensoray reserves the right to make changes to subsequent editions of this document without prior notice to holders of this edition. The reader should consult Sensoray if errors are suspected. In no event shall Sensoray be liable for any damages arising out of or related to this document or the information contained in it.

EXCEPT AS SPECIFIED HEREIN, SENSORAY MAKES NO WARRANTIES, EXPRESS OR IMPLIED, AND SPECIFICALLY DISCLAIMS ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. CUSTOMER'S RIGHT TO RECOVER DAMAGES CAUSED BY FAULT OR NEGLIGENCE ON THE PART OF SENSORAY SHALL BE LIMITED TO THE AMOUNT THEREFORE PAID BY THE CUSTOMER. SENSORAY WILL NOT BE LIABLE FOR DAMAGES RESULTING FROM LOSS OF DATA, PROFITS, USE OF PRODUCTS, OR INCIDENTAL OR CONSEQUENTIAL DAMAGES, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

## Special Handling Instructions

---

The Model 327 circuit board is sensitive to Electrostatic Discharge (ESD).

Special care should be taken in handling, transporting, and installing the 327 to prevent ESD damage to the board. In particular:

- Do not remove the circuit board from its protective anti-static bag until you are ready to install the board into the enclosure.
- Handle the circuit board only at grounded, ESD protected stations.
- Remove power from the PCI bus before installing or removing the circuit board.

# 1. Introduction

Sensoray's Model 327 PCI to PC104-Plus Adapter allows testing PCI boards using the PC104-Plus bus system. PCI board can be placed in the PC104-plus stack, in a parallel plane to the board. This position allows make a compact package. Custom hold-down bracket secures PCI plug-in board in the slot. The PCI slot can be configured as slot 1, 2, 3 or 4, using removable jumper plugs.

## 2. Specifications

Parameter	Specification
Bus	PC104-Plus to 32-bit PCI
Slot configuration	Slot 1 to 4, jumper plugs
PCI board mounting	Standard 32-bit PCI right angle Connector, custom bracket
Dimensions	5 x 3-5/8 inches
Operating temperature	-40°C to +85°C

## 3. Installation

### 3.1. Installation

Power down the PC104-Plus system. Plug the Model 327 adapter into a PC104-plus slot. Configure adapter for slot1 to4 (follow instructions). Plug in the board under test into the 327 adapter and attach custom hold-down bracket. Power up the PC104-Plus system.

### 3.2. Configuration

Each module in PC104-Plus system shall be properly configured to prevent conflicts. The following table shows the appropriate jumper setting and signals used for each module in the stack.

Example: For Slot1 install jumpers IDSEL0, REQ0, GNT0, CLK0 , INTA only,  
For Slot2 install jumpers IDSEL1, REQ1, GNT1, CLK1 , INTB only.

MODULE SLOT	SELECTION JUMPERS				
1	IDSEL0	REQ0	GNT0	CLK0	INTA
2	IDSEL1	REQ1	GNT1	CLK1	INTB
3	IDSEL2	REQ2*	GNT2*	CLK2	INTC
4	IDSEL3	REQ2*	GNT2*	CLK3	INTD

\* NOTE1: Because module slots 3 and 4 share REQ2/GNT2, they cannot both be master devices.

## 4. Technical Support

For technical support contact Sensoray Company, Inc.

Tel: (503) 684-8005

Fax: (503) 684-8164

E-mail: support@sensoray.com

<http://www.sensoray.com>

