

# DIALOG/HD PCI Boards

## Quick Install Card for PCI

- D/240PCI-T1
- D/300PCI-E1

**NOTE:** The D/300PCI-E1 boards are available in both 75- and 120-Ohm versions.



Part number  
05-0887-004  
Copyright © 2001  
Dialogic Corporation.  
All Rights Reserved

## Before You Begin

### Electrostatic Discharge

#### CAUTION

All computer boards are electrostatic sensitive. Handle all static sensitive components, boards and computers at a static-safeguarded work area.

A static-safe work area consists of:

a grounded, static-dissipative **wrist strap** that drains static charge from the person wearing the strap.

a **work surface** covered with or composed of a grounded, static-dissipative material that drains electrical charges from conductive materials placed on the surface.

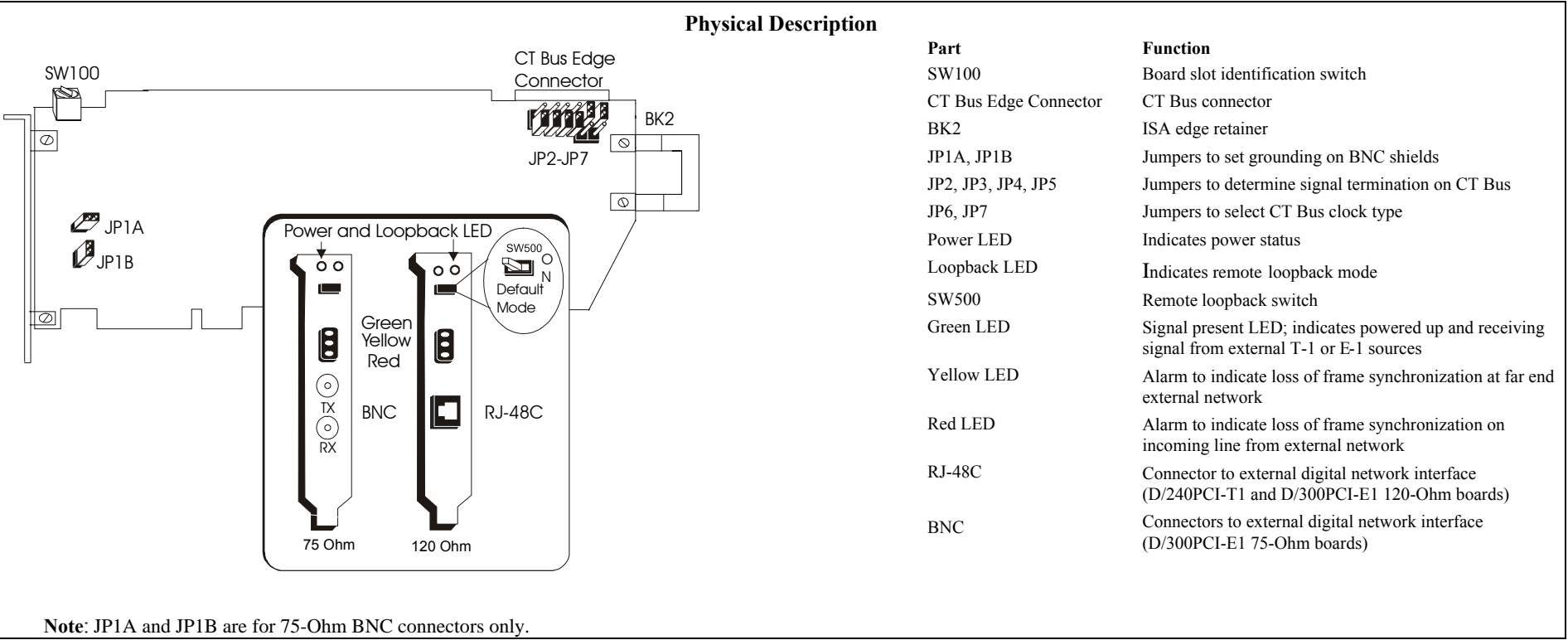
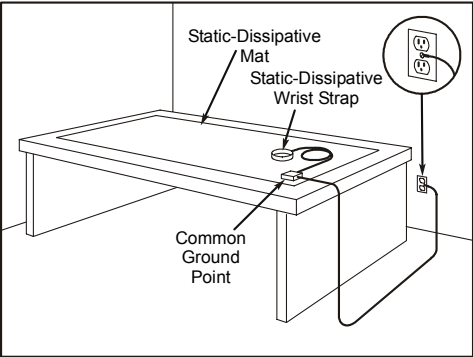
Both items ensure that static charges are drained to a safe rate and current level.

Always observe these practices to maintain a static-safe environment during the entire installation:

Use the wrist strap to ground yourself to the static-safe work area.

Remove the board from the shipping carton and static shielding at the static-safe work area.

Lay the board on the static-dissipative work surface.



**Note:** JP1A and JP1B are for 75-Ohm BNC connectors only.

## Configuring the Hardware

**NOTE:** The DIALOG/HD PCI boards allow you to use the factory default hardware settings for quick installation and operation. However, Dialogic recommends that you review the following information and select any options as desired.

### Board Identification Number

Device names are used to identify and to communicate with boards. For example, you need to know a device name to use the **dx\_open( )** function. Device names are assigned in the order specified by the board numbering methods described below. The addition or removal of any boards could cause the renumbering of boards in the system. Consequently, the assignment of device names could change during the next system start up.

#### Geographical Assignment: Board ID 0

All DIALOG/HD PCI boards can share the factory default setting of board ID 0 (set with rotary switch SW100). Board numbers are assigned automatically based on the PCI bus and slot number. This method is not available for ISA bus boards.

**NOTE:** If you add a board to the system, existing board IDs could change, depending upon the PCI bus and slot number where the new board is installed. (Board IDs set

using the geographical assignment method will be assigned before boards IDs manually set to 1-9, A-F.)

#### Manual Assignment (SW1): Board IDs 1-9, A-F

In addition to the geographical assignment method, the manual assignment method can be used to further identify the boards in your system.

If you change the board ID from the factory default of 0 to any other number, the software will use that setting to identify the board.

**NOTE:** When not set to 0, the board ID must be unique (it must not conflict with the board ID of any other Dialogic ISA or PCI board). If you use this method, Dialogic recommends that you assign sequential numbers starting at 1. This method is also used for all ISA bus boards.

#### Precedence in Mixed Systems

In systems using both methods, or where both ISA and PCI boards exists, PCI boards that use board ID 0 will be numbered **before** PCI or ISA bus boards that use board IDs 1-9, A-F. Board IDs set using the geographical assignment method will be assigned before boards IDs manually set to 1-9, A-F.

For more details on board numbering, visit the Dialogic *FirstCall Info Server* at <http://support.dialogic.com>.

### Remote Loopback Switch (SW500)

The default (normal mode, loopback disabled) for SW500 is as shown. Once the firmware is downloaded, turn SW500 to the right to set on loopback mode. Turning the switch to the right enables you to verify the T-1 or E-1 connection. This switch position overrides any board modes set by your application.

### Grounding the BNC Connectors (D/300PCI-E1 75-Ohm Boards only)

The D/300PCI-E1 board (75-Ohm version) is shipped with jumpers installed so that both the transmit and receive sides of the BNC shields are grounded. If you want to change the grounding configuration, follow the instructions below:

- Place the board on a static-dissipative work surface.
- Configure the jumpers.

Direction	Ground	Jumper	Setting
transmit	grounded	JP1A	in
transmit	not grounded	JP1A	out
receive	grounded	JP1B	in
receive	not grounded	JP1B	out

JP2 - JP7 Settings

All boards are set at the factory default of SCbus clocks selected and no signals terminated. If you wish to modify the settings, refer to the following table.

Jumpers JP6 and JP7 are 3-pin jumpers used to select the type of CT Bus clock signals by installing the jumper clips on pin pairs 1+2 or 2+3. The clips must be installed on the same pair of pins for both jumpers.

SELECT	SHUNT	STANDARD
* SCLK	JP6 PINS 1+2	SCbus
* SCLKX2	JP7 PINS 1+2	SCbus
C2	JP6 PINS 2+3	MVIP
C4	JP7 PINS 2+3	MVIP

*\* indicates factory default setting*

Jumpers JP2, JP3, JP4, and JP5 are 2-pin jumpers used to terminate signals on the bus. The jumper clips must be installed on all four jumpers to terminate the CT Bus at that board.

TERMINATE	SHUNT	STANDARD
CT FRAME A	JP2	SCbus
CT FRAME B	JP4	SCbus
CT C8 A	JP3	MVIP
CT C8 B	JP5	MVIP

**NOTE:** Only the boards at the ends of the ribbon cable must have their terminations enabled. All other boards must not have the jumper clips installed.

ISA Edge Retainer (BK2)

If you are not installing your board in an ISA form factor PCI slot, remove the ISA edge retainer (BK2).

Installing the Hardware

**NOTE:** Dialogic hardware must be installed before the Dialogic System Software.

1. With your computer on the static-safe work area, switch off the power and disconnect all power cords from the electrical outlets.
2. Remove the chassis cover.
3. Select an empty expansion bus slot and remove the slot’s retaining screw (if applicable).
4. Use the slot’s board guides as you insert the board edge retainer into the chassis slot. Press firmly until the board is securely seated in the slot.
5. Tighten the retaining screws to secure the board firmly in the chassis slot.
6. Select a new slot and repeat steps 3-5 for each board you are installing.

7. Use the CT Bus cable to connect the board you are installing to other boards in the system.

**NOTE:** Your system may include both CT Bus and SCbus boards. To connect both board types, you must install a CT Bus/SCbus Adapter on one of the CT Bus boards in a system. See the *CT Bus/SCbus Adapter Quick Install Card* for installation details for the Adapter and the bus cables. Contact your Dialogic Sales Representative to order an Adapter.

8. Replace the chassis cover when finished and reconnect the power cords. Turn the power to the chassis **ON**.

After Installing the Hardware

Install the software as described in the installation instructions included with your Dialogic system software.

For technical specifications and product information, see the Dialogic *WorldView* website, <http://www.dialogic.com>, or use the Dialogic On-Line Information Retrieval System (fax-on-demand), 800-755-5599 or 973-993-1063.

Warranty Period

These boards come with a three year warranty. See the *Hardware Limited Warranty* information for coverage details.

Return Material Authorization (RMA) Process

Before completing the RMA Process, verify that the problem is not due to a mistake or oversight in the installation process. Choose one of the following methods:

On the Web, go to the Dialogic FirstCall Info Server at <http://support.dialogic.com>.

If you have a Dialogic Support Plan, contact one of our Technical Support Departments listed below and they will troubleshoot the problem over the phone.

The Americas

973-993-1443

Continental Europe, Middle East, Africa

+32-2-712-4321

Southeast Asia, West Asia, and Australia/New Zealand

+65-339-9833

For more information about these Technical Support sites, go to: <http://www.dialogic.com/support/tech.htm>.

If you purchased your Dialogic product outside the United States or Canada, contact your local Dialogic Sales Office for RMA procedures.

If you purchased your Dialogic product from a distributor, they own the warranty and you **MUST** go through them if you do not want to be charged for the repair.

After you have determined that you have a problem board, go to Dialogic's Technical Support website at <http://support.dialogic.com/rma/index.htm>, fill out **Dialogic’s Repair Authorization Request Form** and e-mail the Return Authorization Department.

**NOTE:** You may return the board to Dialogic for repair as outlined in the steps below, even if you did not purchase your board through the Dialogic Corporate Sales Office. However, if the repairs are not authorized by your local distributor or local Dialogic Sales office, the board is considered “out of warranty” and a fee is charged for repair services

1. Observe correct static-safe handling procedures. Disconnect power, cables, remove the board from the chassis, repack the board in an anti-static bag and

then place it in a shipping carton, using appropriate packing material. While the board is out, make a note of the serial number (beginning with two letters and located on a label attached to the board).

2. Include your Call Tracking Number given to you by a technical support representative, if appropriate.
3. Clearly display the Return Authorization Number on the package. If this number is not on your package it will be treated as an unauthorized return.
4. Pack the board(s) in their original anti-static packaging and protected packaging.

**NOTE:** The Serial Numbers for our products are in alpha/numeric format - alpha followed by numeric digits. This information must be given at the time of the return or the request cannot be processed. Dialogic is not responsible for risk of loss or damage in transit.

5. Ship the board to the Dialogic address listed below:

Dialogic, an Intel Company  
1515 Route 10  
Parsippany, NJ 07054 USA  
ATTN: RMA#