



PRI-PCI T1/E1 ISDN Controller Hardware Installation

This guide provides a PRI-PCI hardware installation summary. For detailed descriptions of the procedures in this card, refer to the controller *Technical Description*.

Board Configurations

PRI-PCI adapters support data and/or digital voice communications. They provide either one T1/E1 span or can be fully configured for two T1/E1 digital spans.

PRI-PCI adapters normally contain one standard 4 channel HDLC controller and is configurable to support up to two 32 channel HDLC controllers.

PRI-PCI adapters can also be configured with an optional MVIP mezzanine.

Setting MVIP Clock Termination

PRI-PCI adapters can be used to terminate a MVIP bus. To terminate the MVIP bus, jumper the pins at location J2 (on MVIP Mezzanine below the connector) as shown in Figure 1.

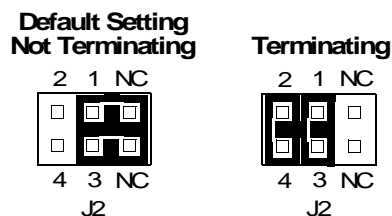


Figure 1: MVIP Clock Termination

The two MVIP bus signals that require termination are MVIPC4 and MVIPC2. The general rules for bus termination are based on the number of boards on the bus and the location of the board providing clocking.

- *If the bus contains five boards or less*, the board providing clocking must be located at one end of the bus and the board terminating the bus at the opposite end.
- *If the bus contains more than five boards*, the boards at both ends must terminate the bus. The board providing clocking can be located anywhere on the bus (preferably a central position to other boards).

Installing the PRI-PCI Controller



The PRI-PCI adapter is an electrostatic-sensitive device. Use ESD procedures when handling it.

CAUTION

This section provides installation and removal instructions for the PRI-PCI adapter.

Board Installation

1. Place the PRI-PCI adapter on an antistatic mat.
2. Turn the host system power OFF.
3. Disconnect all cables connected to the host's chassis.
4. Remove the cover from the host system chassis; refer to the documentation supplied with the host system for instructions.
5. **Select an available 5V PCI slot.** If necessary, remove the bracket that covers the chassis opening for that slot.

6. Holding the PRI-PCI adapter by the rear bracket and board edges, gently insert it into the expansion slot. Make sure the adapter is seated securely.
7. Secure the adapter to the chassis using a bracket screw.
8. *If you are using the MVIP bus*, connect the 40-pin ribbon cable to the MVIP connector on the top edge of the MVIP mezzanine
9. Replace the host system chassis cover.
10. Reconnect the cables you removed in Step 3.
11. Connect the T1/E1 span to the RJ-45 connector on the PRI-PCI board's rear bracket.
12. Turn the host's power ON. The LEDs on the rear bracket remain extinguished until the adapter is reset and Instant ISDN Software is downloaded. Once the download is complete, the green RUN LED should turn on and remain lit and the yellow LEDs should remain extinguished (refer to *Status Indicators* for more information on status indicators).

If the board fails to initialize, check your host system power connections and then contact Brooktrout Customer Support (contact information on this card).

Board Removal

1. Turn the host system power OFF and verify that the PRI-PCI adapter's LEDs are extinguished.
2. Disconnect the T1/E1 span from the RJ-45 connector on the adapter's rear bracket.
3. Disconnect all other cables connected to the host's chassis.
4. Remove the cover from the host system chassis; refer to the documentation supplied with the host system for instructions.
5. *If you are using the MVIP bus*, disconnect the 40-pin ribbon cable from the MVIP connector on the top edge of the MVIP mezzanine.
6. If necessary, loosen and remove the bracket screw securing the adapter to the host's chassis.
7. Holding the adapter by the rear bracket and the edges, gently remove it from its expansion slot.
8. Place the PRI-PCI adapter in an antistatic bag while it remains out of the host system chassis.

Status Indicators

PRI-PCI adapters contain four (4) LED indicators that can be viewed through the front panel (Figure 1).

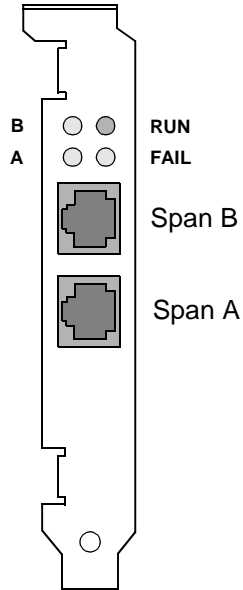


Figure 1: Front of Mounting Bracket

The following table lists the name, color, and meaning of the LEDs

Name	Color	Indicates
Run	Green	Off - Not running On - Normal activity
Fail	Yellow	Off - Normal operation On - Board failure
A	Yellow	Off - Normal operation On - Carrier failure (LOS)
B	Yellow	Off - Normal operation On - Carrier failure (LOS)

Hardware Specifications

PRI-PCI adapter boards can be inserted into any standard 5V 32/64-bit PCI slot on a PC backplane. The PRI-PCI adapter board conforms to the *PCI Local Bus Specification Revision 2.1* dated June 1, 1995.

Note: Pin assignments for the PRI-PCI connectors are located in *Chapter 3* of the *PRI-PCI Technical Description*.

Operating and Environmental Specifications

- Power:
+5 Vdc, $\pm 5\%$, 2.0 A typical
- Temperature (Operating):
0° C to 50° C
(32° F to 122° F)
- Humidity: 20% - 80% (non condensing)

Technical Support

Use one of the following methods to contact Brooktrout Technical Support:

- Telephone::

U.S.: (781) 433-9600

- E-Mail/Fax:

E-mail: techsupport@brooktrout.com

Fax: (781) 449-9009

- Web Site: <http://www.brooktrout.com>