



## Installing the Dialogic® Brooktrout® TruFax® PCI Express Fax Board

Part Number: 931-166-06

The Dialogic® Brooktrout® TruFax® PCI Express boards (“TruFax” or “TruFax board(s)”) are half-sized, single-slot PCI Express-bus compatible fax processing boards. They provide the following:

- ♦ On-board analog connections
- ♦ Up to two V.17 fax channels per board

The TruFax PCI Express Series boards are single lane (x4 mechanical form factor) cards.

You need a fax application to use a TruFax board. Dialogic does not provide the application or a driver for this board. A driver comes with the application that you purchase.

This installation guide provides information about:

- ♦ Safety Compliance Statements
- ♦ System Requirements (including telephone service)
- ♦ Setting the Module Number
- ♦ Installing the Board
- ♦ Recognizing PCIe Slots
- ♦ Connecting the Phone Service
- ♦ Understanding LED Signals
- ♦ Using the Dialogic® Brooktrout® TruFax® Fax Board
- ♦ Getting Help

## Safety Compliance Statements

- ♦ Install this board only in UL Listed equipment that has instructions stating that the user may install and remove accessory boards.
- ♦ Disconnect any telephone cords from the board before removing the chassis cover of the equipment.

## System Requirements

This board must be installed in an enclosure that meets the following specifications:

- ♦ Chassis Requirement: Compliant to the PCI Express Base Specification, Rev 1.1
- ♦ A Pentium or later host processor
- ♦ A PCIe x4, x8, or x16 bus slot. See [Recognizing PCIe Slots](#) for more information.
- ♦ Analog loopstart telephone service
- ♦ Temperature: 0 C - 50 C
- ♦ Humidity: 10% - 95% (non-condensing)
- ♦ Power Requirement (Maximum Load):

Board	Total Power at 12 V
2 ALS Channels	12 W

## Setting the Module Number

Set each board to a unique module number to easily identify the resources associated with a specific board in a multi-board system.

Use the SW-1 rotary switch (Figure 1) to set a unique module number for each Dialogic® Brooktrout® board. See Figure 4 for the switch location. Select a number from 2 - F on the rotary switch. Settings 0 and 1 are reserved and cannot be used.

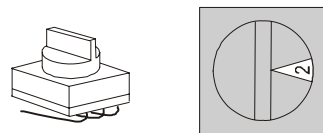


Figure 1. Rotary Switch (SW-1)

## Installing the Board

To install your board:

1. Turn off your PC and remove the cover.

**Caution:** A small amount of static electricity can destroy the sensitive components on your board. To prevent static damage, always connect yourself to ground using a ground strap before touching a circuit board. Handle boards only by the edges or metal mounting brackets and transport boards in an anti-static bag.

2. If the system has a PCI Express expansion hold-down bar, remove it.
3. Locate a free PCI Express bus slot that is x4 or larger.

4. Carefully align the board with the slot and firmly seat the board into the slot. Please take extra care in inserting the PCI Express Board Edge Connector into the PCI Express slot to avoid potential damage to the board.
5. Tighten the mounting bracket screw to secure the board to the chassis.

**Warning:** When installing the board, be sure that the mounting bracket is securely fastened to the chassis and the chassis is plugged into a grounded three prong plug. Improper chassis or bracket grounding can result in harmful or fatal electrical shock as well as component damage.

6. Replace the cover.
7. Turn on your computer.

**Note:** Dialogic® Brooktrout® boards should not be present in the computer during the installation of any operating system. The operating system might misinterpret the board as being some other device, with unpredictable consequences.

## Recognizing PCIe Slots

The PCI Express connectors in the computer chassis usually appear as white slots. The TruFax board has a PCIe board edge connector. It can be inserted into any of the PCIe slots shown in Figure 2.

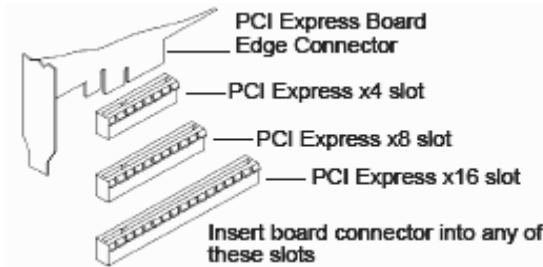


Figure 2. PCIe Slots

## Connecting the Phone Service

The appropriate telephone service and hookups must be installed at your site in order to connect to telephone service. The following table shows the relationship between channel and connector.

Channel Number	RJ-45 Connector	Type of Service
0	A	Analog Loop Start
1	A	Analog Loop Start

Use the cable supplied with the board. See Figure 3 for pinout details for your board.

Use the following instructions to connect your board to Analog service:

1. Plug one end of the cable into the RJ-45 telephone connector on the board (see Figure 3 to locate connector).
2. Plug the other end into the wall connector for your telephone service.

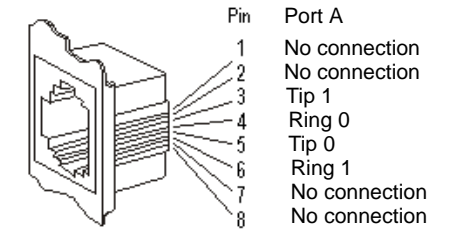


Figure 3. Analog Loop Start Connector Pinouts

# Understanding LED Signals

## LEDs on the Mounting Bracket

The LEDs on the mounting bracket provide information about the status of the different systems on the board. To identify and locate these LEDs, see Figure 4.

The following tables describe how the end panel LEDs provide information:

### Channel LEDs

Channel LEDs	Meaning
Off	Channel is on hook (inactive)
Flashing green	Channel is off hook (active).
Flashing at Ring Cadence (varies by country)	Incoming ring signal (ALS only)

### Board Status LED

Board Status LED	Meaning
Flashing yellow (1.5 second rate)	Board has successfully powered up and is ready for firmware.
Solid red	Board has failed power up tests.
Flashing yellow and green	Application is downloading firmware to the board.
Flashing green (1 second rate)	Firmware is downloaded, and the board is in service.
Solid green or Flickering red	Invalid states. Please reinstall your board and call Tech Support, if the condition persists.
Off	Board is not powered up.

# Using the Dialogic® Brooktrout® TruFax® Fax Board

Once you have installed the TruFax board, install and configure your fax software application according to instructions included with the software.

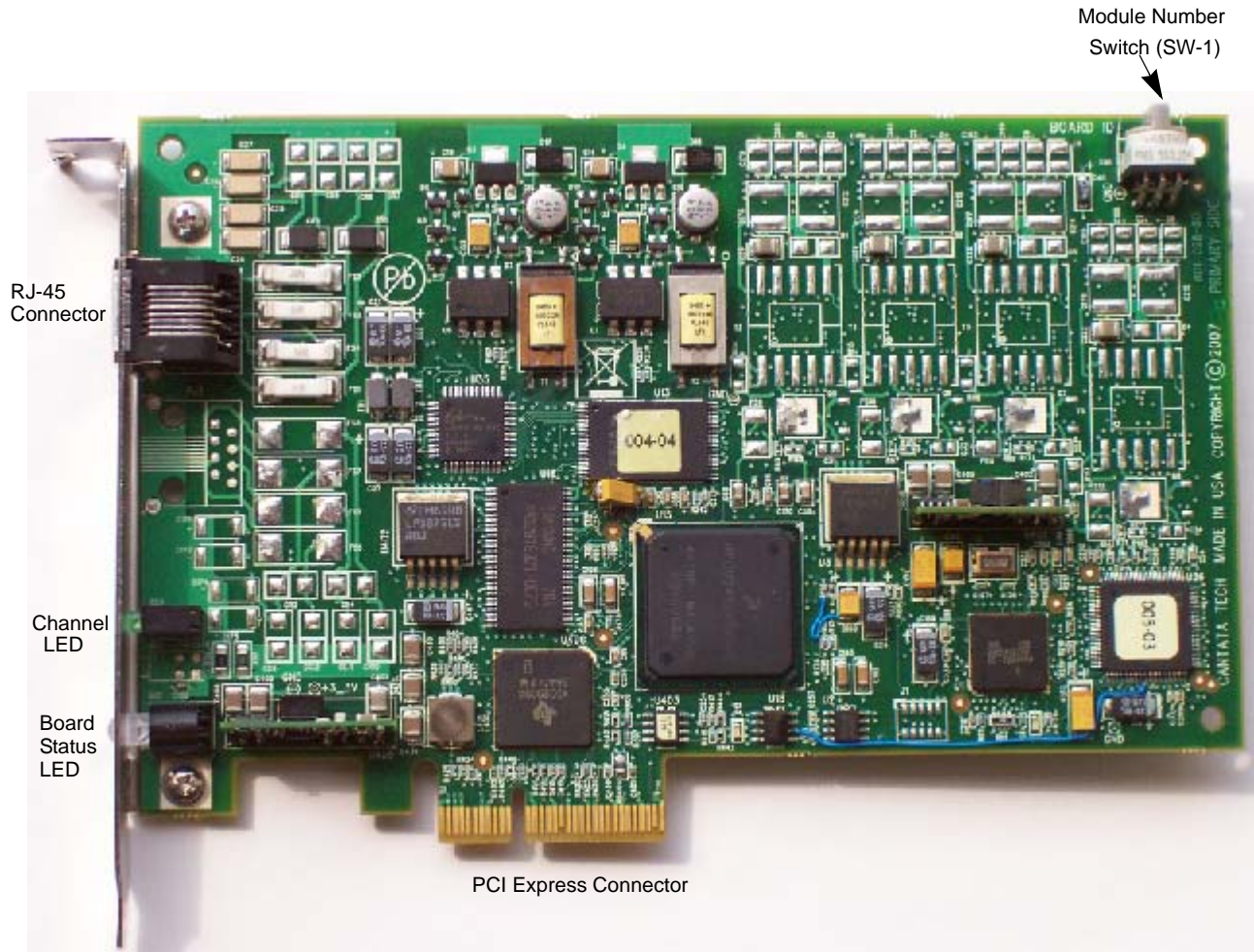


Figure 4. Dialogic® Brooktrout® TruFax® PCI Express Fax Board

# Getting Help

Dialogic provides technical support for customers who have purchased hardware or software products from Dialogic. If you purchased products from a reseller, please contact that reseller for technical support.

This equipment contains no user serviceable parts and is not intended for repair by unauthorized personnel.

If you experience problems with the TruFax board, for repair or warranty information, please use the contact information below. If the equipment is causing harm to the telephone network, the telephone company might request that you disconnect the equipment until the problem is resolved.

To obtain technical support, please use the website : [www.dialogic.com/support](http://www.dialogic.com/support)

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