



Installing the Dialogic® Brooktrout® TruFax® Analog PCI Board

Part Number: 931-128-05

The Dialogic® Brooktrout® TruFax® Analog PCI board is a half-sized, single-slot, PCI-bus compatible fax processing board (“TruFax®” or TruFax® board(s)”). This board provides the following:

- ◆ On-board analog connections
- ◆ One or two V.17 fax channels per board

This installation guide provides information on:

- ◆ Safety Compliance Statements
- ◆ System Requirements (including telephone service)
- ◆ Setting the Module Number
- ◆ Installing the Dialogic® Brooktrout® TruFax® Board
- ◆ Recognizing PCI Slots
- ◆ Connecting the Phone Service
- ◆ Understanding LED Signals
- ◆ Using the Dialogic® Brooktrout® TruFax® Analog 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 TNV circuit connectors (telephone line cords) from this board before removing the cover of the equipment.

System Requirements

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

Note: Your TruFax® Analog board can coexist in the same chassis with a maximum of three other TruFax® or TR1000 boards. If the software detects more than three other TruFax® or TR1000 boards in the same chassis, any TruFax® Analog board that exceeds the limit of four boards will not operate.

Your TruFax® Analog board cannot coexist in the same chassis with other TR1034 boards or SR140 virtual modules. If the software detects a TR1034 or SR140 module in the chassis, only the TR1034 and SR140 modules will continue to operate.

- ◆ A Pentium or later host processor
- ◆ An available 33 or 66 MHz, 32- or 64-bit PCI bus slot. See [Recognizing PCI Slots](#) for more information.

The TruFax® Analog PCI Series boards can be used in either 3.3V or 5V signaling PCI slots.

- ◆ Temperature: 0° C - 50° C
- ◆ Humidity: 10% - 95% (non-condensing)
- ◆ Power Requirements:

Board	+5V	+3.3 V	Total Power
1 channel	0.3A	1.0A	4.8 W
2 channels	0.3A	1.0A	4.8 W

The following telephone service is also required:

- ◆ Analog loop start interface

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 to set a unique module number for each Dialogic® Brooktrout® board. See Figure 4 for the switch location. Select a number from 2 - 9 on the rotary switch. Settings 0 and 1 are reserved and cannot be used.

Installing the Dialogic® Brooktrout® TruFax® 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. Locate a free PCI bus slot, and remove the slot cover.
3. Carefully align the board with the slot and firmly seat the board into the slot.
4. 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.

5. Replace the cover.
6. 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 PCI Slots

The PCI slots in the computer chassis usually appear as white slots. The Dialogic® Brooktrout® TruFax® Analog board can be inserted into any of the PCI slots shown in Figure 1.

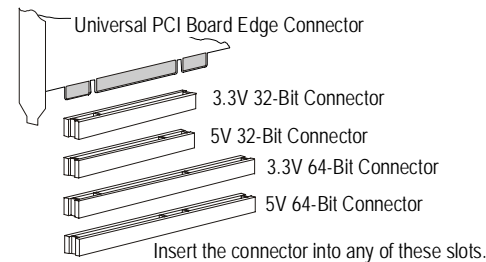


Figure 1. PCI Slots

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 2 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.

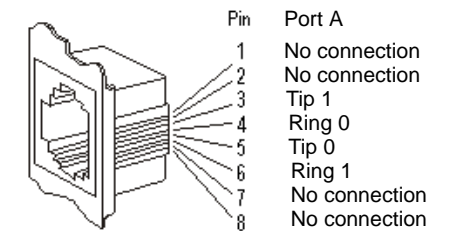


Figure 2. Analog Loop Start Connector Pinouts

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 3.

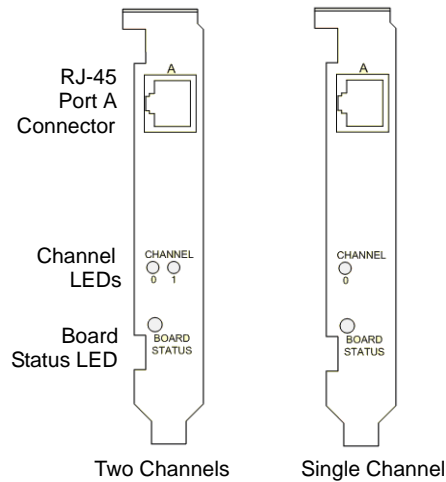


Figure 3. End Panel Connector and LEDs

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

Channel LEDs

Channel LEDs	Meaning
Off	Channel is on hook (inactive).
Flashing at 0.5 second rate	Channel is off hook (active).
Flashing at Ring Cadence (varies by country)	Incoming ring signal.

Board Status LED

Board Status LED	Meaning
Flashing yellow (1.5 second rate)	Board has successfully powered up and is ready for firmware.
Steady 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.
Off	Board is not powered up.

Using the Dialogic® Brooktrout® TruFax® Analog Board

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

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® Analog board, for repair or warranty information, please use the web site below for technical support. 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.

www.dialogic.com/support

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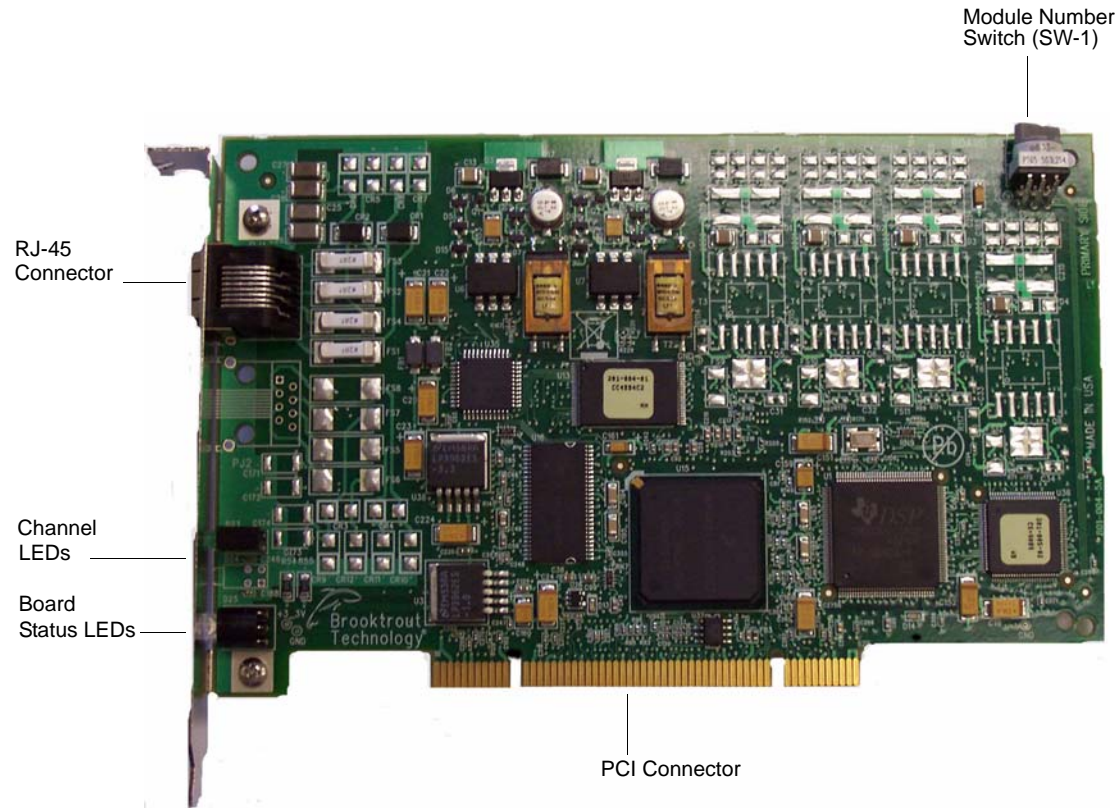


Figure 4. Dialogic® Brooktrout® TruFax® Analog PCI Series Board