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Installing the Dialogic® Brooktrout® TruFax® Analog Full-sized PCI Boards

Part Number: 931-104-05

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

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

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

You need a fax application to use a TruFax Analog 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 on:

- System Requirements
- Setting the Module Number
- Installing the TruFax Board
- Recognizing PCI Slots
- Connecting the Phone Service
- Understanding LED Signals
- Using the TruFax Analog Board
- Getting Help

System Requirements

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

- A Pentium or later host processor
- A PCI bus slot that runs at least 33 MHz and is 32 or 64 bits wide. See *Recognizing PCI Slots* for more information.
- Temperature: 0 C - 50 C
- Humidity: 10% - 95% (non-condensing)
- Power Requirements:

Boards	+5 V	+3.3 V	+12 V	-12 V	Total Power
1 or 2 channels	0.9A	0A	0A	0A	4.5 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 (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.
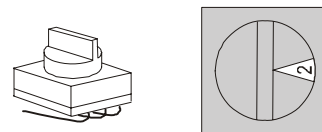

Figure 1.   Rotary Switch (SW-1)

Installing the 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. If the system has a PCI expansion hold-down bar, remove it.
3. Locate a free PCI bus slot and remove the slot cover.
4. Carefully align the board with the slot and firmly seat the board into the slot.
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 PCI Slots

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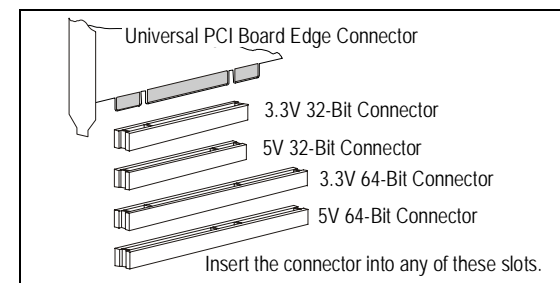

Figure 2.   PCI Slots

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 channel/port relationship:

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

Use the cable supplied with the board. Use these instructions to connect your board to Analog service:

1. Plug one end of the cable into the RJ-45 telephone connector on the board.

   Connect to Port A for channel 0 (single) or 0-1 (dual) (see Figure 4 to locate port).

2. Plug the other end into the wall connector for your analog loop start telephone service.

Before using your analog service, you must configure certain parameters. See your LAN Fax documentation for details.

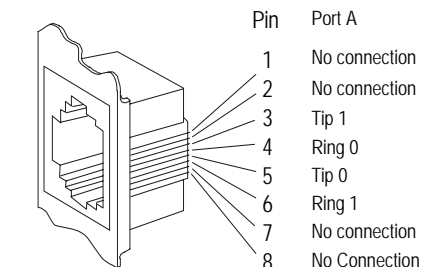See Figure 3 for pinout details for your board:

Pin	Port A
1	No connection
2	No connection
3	Tip 1
4	Ring 0
5	Tip 0
6	Ring 1
7	No connection
8	No Connection

Figure 3.   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) or being set up.

Board Status LED

Board Status LED	Meaning
Flashing yellow	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	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 this condition persists.
Off	Board is not powered up.

LEDs on the Board

The LEDs on the board provide information about the status of the board. To locate these LEDs, see Figure 4.

The following table describes how the LEDs on the board provide information:

LED	Meaning
DSP	Displays the status for the DSP. After the firmware is loaded and during normal execution, this LED blinks about every second. If the LED is not blinking, the DSP firmware is not running.
Power	Steady green indicates good board power.

Using the 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.

Module Number Switch (SW-1)

LEDs
DSP0 (DS6)
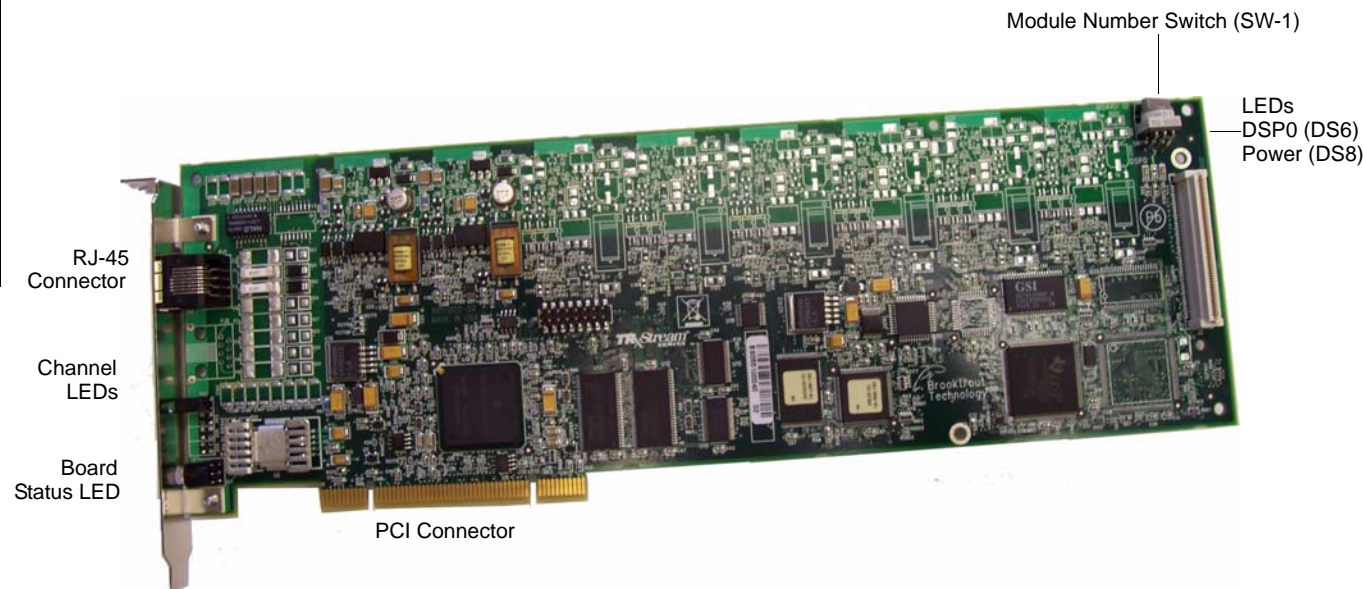Power (DS8)

RJ-45 Connector

Channel LEDs

Board Status LED

PCI Connector

Figure 4. Dialogic® Brootrout® TruFax Analog PCI Series 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 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