

TruFax 200 PCI Board Installation Technical Note



Steps to Installing the Brooktrout Trufax PCI Board and Driver:

- 1) Physically install the Brooktrout Trufax PCI board in an available PCI slot in your Amanda system PC.
- 2) Power the system on, and allow it to boot into Windows. Once in Windows, the operating system will detect the fax board as a network device. Cancel out of the new hardware installation wizard, and access the hardware device manager. In the device manager, you'll see a new unknown device (under Other devices). Disable this device in the hardware profile.
- 3) Access the Amanda Product CD (version 1.17 or above) and from the drop down menu selection choose "Brooktrout Trufax /200 ISA & PCI Driver" and click install. Run the installer and choose all the default options. Click OK when finished.
- 4) Click Start => Programs => Brooktrout Trufax => Install Trufax Driver, to launch the configuration program for the Brooktrout Trufax card.

You'll be prompted to enter a few bits of information, answer each question appropriately (or as shown in the picture below):

A screenshot of a Windows command prompt window titled "Install TruFax Driver". The window has a blue title bar and standard Windows window controls. The text inside is as follows:

```
Installing Brooktrout Fax/Voice Device Driver Version 4.1.0
How many total fax & voice channels do you want to support(1-96, default 16): 2
What interrupt line will the ISA fax/voice boards use,
-1 if no ISA boards (default 5): -1
What DMA channel will the ISA fax/voice boards use,
-1 if no ISA boards or no DMA channel (default 1): -1
Kernel buffer size (default 8192):
Kernel interrupt queue size (default 10):
Enable debug code (y or n, default y):
Number of dump history entries (default 200):
Enable debug fifo logging (y or n, default n):
Configuring fax/voice driver:
    Number of channels 2
    Interrupt line -1
    Dma channel -1
    Buffer size 8192
    Interrupt queue size 10
    Debug: y, 200 0
Start the driver automatically at boot time? (y or n, default y): y
Enter cmd line args for faxinit. Be sure to use full pathnames
for any files not residing in C:\WINNT\bfx [none]: c:\bfx\config.txt
```

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After answering all of the questions, the window will disappear. Proceed to the next step.

- 5) You must create a dummy file called config.txt and place it in the c:\bfx folder. This file is blank on a PCI system, but be present to use the board .
- 6) In the Amanda Setup Utility, define the physical fax extensions that will be connected to the Brooktrout Trufax board. Save the changes.
- 7) Stop the Amanda Service.
- 8) Start the "Fax Init" service. This will start the Brooktrout Trufax service and enable the resource for use by Amanda.
- 9) Start the Amanda Service.
- 10) Run the Monitor client. You should see 2 fax resources in the fax window on the upper right hand corner of the screen. You should see "Fax1: Idle, Fax2: Idle". If you do, your in good shape and ready to test the fax board. If you don't see 2 fax resources there make sure you created the "config.txt" file and try again.

Testing the Trufax PCI Board:

Note: Using the Amanda Fax Printer Driver is the quickest way to test your Brooktrout Trufax PCI board.

Install the Amanda Fax 32 Printer driver from the C:\Clients folder on the Amanda server system. Once installed, make sure Amanda Fax 32 is setup as your default printer. If this is the only printer installed on the Amanda PC, Amanda Fax 32 will be set as your default printer.

Create a test document in wordpad or notepad and print the document. After printing, you'll get prompted to enter your mailbox number, password, to enter the server name, and the fax number to dial. Enter (localhost) as the server name, your mailbox number and password, and "9,number" to send the fax to and click ok. You'll see one of the fax ports go off-hook and change its status to send from idle. Give it a few minutes (it shouldn't take more then 5) and check the fax machine to see if you

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received your test fax. If you did, your in good shape, if you didn't check the C:\Amanda\Trace.out file to see the cause of the error message.

Hints and Tips

Before doing any testing, run Amanda Monitor and make sure the Fax ports are showing up idle. If not, you'll need to check your configuration.

Common reasons for the ports not to show up idle:

- You did not create the c:\bfax\config.txt file (this file must be blank)
- You didn't install a Brooktrout Trufax 200 PCI board.
- You didn't run the Brooktrout Trufax 200 PCI installer from the Amanda Product CD.
- You didn't run the Brooktrout Trufax configuration after installing the driver from the Brooktrout Trufax program group.
- After installing everything properly, you didn't manually start the "Fax Init" service.

Note: An interesting side note is that un-like fax modems, the fax resources will show up idle without defining fax1 or fax2!

Running WINMSD:

You can run WINMSD to check and see if the PC see's the Brooktrout Trufax board or not. The IRQ used by the PCI board can be shared (unlike the ISA version of this board), but the I/O address must be unique.

You can run WINMSD by typing "WINMSD" under run or at a command prompt.