



PTA Installation Doc.

Rev2
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Preliminary

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This document provides hardware details for a proposed PCI based Test Adapter
for BTeV

For electronic copies of this document access the web at URL:
http://www-ese.fnal.gov/ESEPROJ/BTeV/TestStands/PTA_Install.doc
http://www-ese.fnal.gov/ESEPROJ/BTeV/TestStands/PTA_Install.pdf

1. Software and Driver Installation

1.1. Driver Installation

For Windows 2000, go to the “WinDriver” directory on you PTA install disk. Copy the file “windrvr.sys” to the directory: C:\WINNT\system32\drivers\. Next, open a DOS window go to the “WinDriver” directory on you PTA install disk and run “wdreg install”. The WinDriver device driver is now setup, and you should be able to run and compile the sample PTA programs on the install disk.

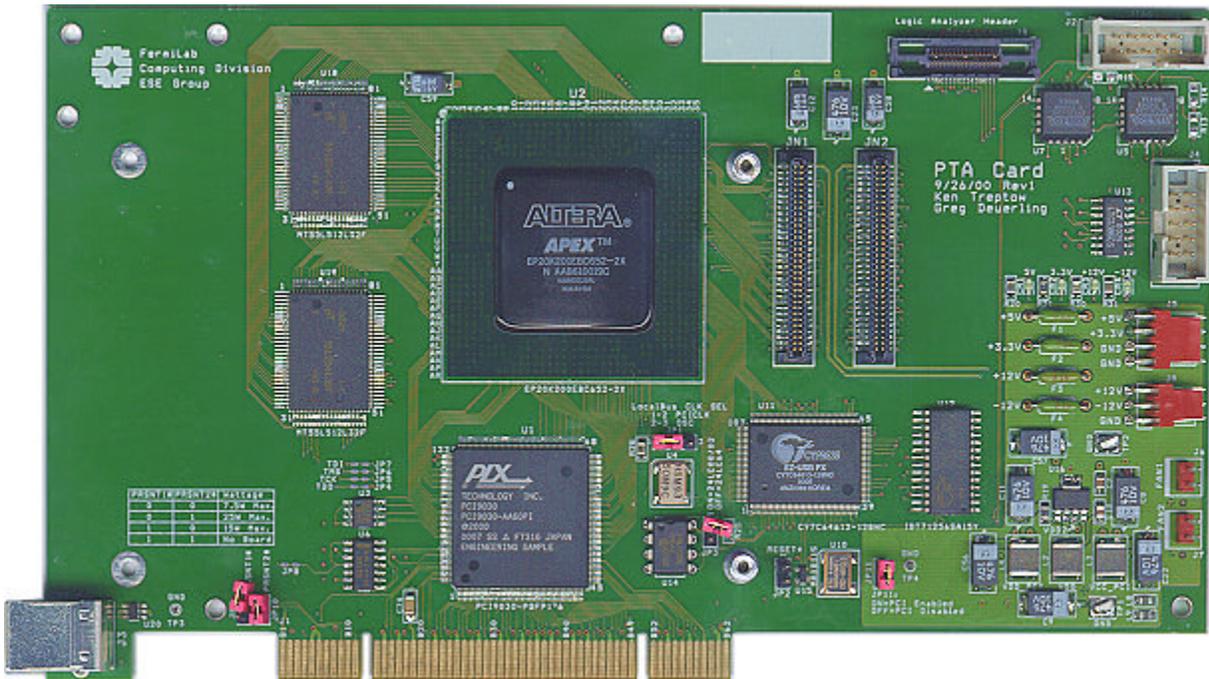
For Windows 98/ME, go to the “WinDriver” directory on you PTA install disk. Copy the file “windrvr.vxd” to the directory: C:\WINNT\system32\drivers\. Next, open a DOS window go to the “WinDriver” directory on you PTA install disk and run “wdreg -vxd install”. The WinDriver device driver is now setup, and you should be able to run and compile the sample PTA programs on the install disk.

1.2. Software Installation

Go to the “PlxTools” directory on you PTA install disk. Run the setup.exe program. This will install the PLX PCI debug tools.

2. PCI Test Adapter Card

The picture below shows a Rev1 PCI Test Adapter card (known as PTA from here on out). The PTA can be installed in any available PCI slot. A PTA with a daughter card installed will block one PCI slot, so if you have a PC that has ISA slots, its best to install the PTA in the last available PCI slot. This way only a ISA slot will be blocked. It is also assumed that the PTA card will be going into a Windows 2000 machine. The PTA should work Win9x and WinNT, but I have not tested the PTA on those OS’s.



2.1. PTA Installation

- 2.1.1. Remove the cover to the PC and make sure the PC is powered down and unplugged from the AC outlet. Some PCI slots have power on them even when the PC is turned off.
- 2.1.2. Plug PTA card into a PCI slot
- 2.1.3. Put computer case back on so PC has proper airflow for cooling.
- 2.1.4. Turn power back on to the PC.
- 2.1.5. A window will pop up and say “Other PCI Bridge Device” has been found, then sometime after that the “New Hardware Wizard” will pop up.
- 2.1.6. Click “Next”, then on the next window click “Search for a suitable driver for my device”, then hit next. On the next window select “Specify a location” and hit “next”. Point to the PTA’s install CD by hitting the “Browse” button. You should next see 2 inf files listed, p9030.inf, and PciSdk.inf. Select the PciSdk.inf file. When the next window pops up, hit “Finished”.
- 2.1.7. The PTA card should now be installed.