

# README.hfc-pci.txt

The driver for the HFC-PCI and HFC-PCI-A chips from CCD may be used for many OEM cards using this chips. Additionally the driver has a special feature which makes it possible to read the echo-channel of the isdn bus. So all frames in both directions may be logged.

When the echo logging feature is used the number of available B-channels for a HFC-PCI card is reduced to 1. Of course this is only relevant to the card, not to the isdn line.

To activate the echo mode the following ioctls must be entered:

```
hisaxctrl <driver/cardname> 10 1
```

This reduces the available channels to 1. There must not be open connections through this card when entering the command.

And then:

```
hisaxctrl <driver/cardname> 12 1
```

This enables the echo mode. If Hex logging is activated the isdnctrlx devices show a output with a line beginning of HEX: for the providers exchange and ECHO: for isdn devices sending to the provider.

If more than one HFC-PCI cards are installed, a specific card may be selected at the hisax module load command line. Supply the load command with the desired IO-address of the desired card.

Example:

There tree cards installed in your machine at IO-base addresses 0xd000, 0xd400 and 0xdc00

If you want to use the card at 0xd400 standalone you should supply the insmod or depmod with type=35 io=0xd400.

If you want to use all three cards, but the order needs to be at 0xdc00, 0xd400, 0xd000 you may give the parameters type=35, 35, 35 io=0xdc00, 0xd400, 0xd00

Then the desired card will be the initialised in the desired order.

If the io parameter is used the io addresses of all used cards should be supplied else the parameter is assumed 0 and a auto search for a free card is invoked which may not give the wanted result.

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