

# SysKonnnect driver - SKFP

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Readme File for skfp.o v2.06

## 1. Overview

This README explains how to use the driver 'skfp' for Linux with your network adapter.

Chapter 2: Contains a list of all network adapters that are supported by this driver.

Chapter 3:

    Gives some general information.

Chapter 4: Describes common problems and solutions.

Chapter 5: Shows the changed functionality of the adapter LEDs.

Chapter 6: History of development.

## 2. Supported adapters

The network driver 'skfp' supports the following network adapters: SysKonnnect adapters:

- SK-5521 (SK-NET FDDI-UP)
- SK-5522 (SK-NET FDDI-UP DAS)
- SK-5541 (SK-NET FDDI-FP)
- SK-5543 (SK-NET FDDI-LP)
- SK-5544 (SK-NET FDDI-LP DAS)
- SK-5821 (SK-NET FDDI-UP64)
- SK-5822 (SK-NET FDDI-UP64 DAS)
- SK-5841 (SK-NET FDDI-FP64)
- SK-5843 (SK-NET FDDI-LP64)
- SK-5844 (SK-NET FDDI-LP64 DAS)

Compaq adapters (not tested):

- Netelligent 100 FDDI DAS Fibre SC
- Netelligent 100 FDDI SAS Fibre SC
- Netelligent 100 FDDI DAS UTP
- Netelligent 100 FDDI SAS UTP
- Netelligent 100 FDDI SAS Fibre MIC

## 3. General Information

From v2.01 on, the driver is integrated in the linux kernel sources. Therefore, the installation is the same as for any other adapter supported by the kernel.

Refer to the manual of your distribution about the installation of network adapters.

Makes my life much easier :-)

## 4. Troubleshooting

If you run into problems during installation, check those items:

Problem:

    The FDDI adapter cannot be found by the driver.

Reason:

    Look in /proc/pci for the following entry:

        'FDDI network controller: SysKonnnect SK-FDDI-PCI ...'

    If this entry exists, then the FDDI adapter has been found by the system and should be able to be used.

    If this entry does not exist or if the file '/proc/pci' is not there, then you may have a hardware problem or PCI support may

not be enabled in your kernel.

The adapter can be checked using the diagnostic program which is available from the SysKconnect web site:

[www.syskconnect.de](http://www.syskconnect.de)

Some COMPAQ machines have a problem with PCI under Linux. This is described in the 'PCI howto' document (included in some distributions or available from the [www](http://www.linux.org), e.g. at '[www.linux.org](http://www.linux.org)') and no workaround is available.

#### Problem:

You want to use your computer as a router between multiple IP subnetworks (using multiple adapters), but you cannot reach computers in other subnetworks.

#### Reason:

Either the router's kernel is not configured for IP forwarding or there is a problem with the routing table and gateway configuration in at least one of the computers.

If your problem is not listed here, please contact our technical support for help.

You can send email to: [linux@syskconnect.de](mailto:linux@syskconnect.de)

When contacting our technical support, please ensure that the following information is available:

- System Manufacturer and Model
- Boards in your system
- Distribution
- Kernel version

## 5. Function of the Adapter LEDs

The functionality of the LED's on the FDDI network adapters was changed in SMT version v2.82. With this new SMT version, the yellow LED works as a ring operational indicator. An active yellow LED indicates that the ring is down. The green LED on the adapter now works as a link indicator where an active GREEN LED indicates that the respective port has a physical connection.

With versions of SMT prior to v2.82 a ring up was indicated if the yellow LED was off while the green LED(s) showed the connection status of the adapter. During a ring down the green LED was off and the yellow LED was on.

All implementations indicate that a driver is not loaded if all LEDs are off.

## 6. History

### v2.06 (20000511) (In-Kernel version)

New features:

- 64 bit support
- new pci dma interface
- in kernel 2.3.99

### v2.05 (20000217) (In-Kernel version)

New features:

- Changes for 2.3.45 kernel

### v2.04 (20000207) (Standalone version)

New features:

- Added rx/tx byte counter

### v2.03 (20000111) (Standalone version)

Problems fixed:

- Fixed printk statements from v2.02

### v2.02 (991215) (Standalone version)

Problems fixed:

- Removed unnecessary output
- Fixed path for "printver.sh" in makefile

## v2.01 (991122) (In-Kernel version)

### New features:

- Integration in Linux kernel sources
- Support for memory mapped I/O.

## v2.00 (991112)

### New features:

- Full source released under GPL

## v1.05 (991023)

### Problems fixed:

- Compilation with kernel version 2.2.13 failed

## v1.04 (990427)

### Changes:

- New SMT module included, changing LED functionality

### Problems fixed:

- Synchronization on SMP machines was buggy

## v1.03 (990325)

### Problems fixed:

- Interrupt routing on SMP machines could be incorrect

## v1.02 (990310)

### New features:

- Support for kernel versions 2.2.x added
- Kernel patch instead of private duplicate of kernel functions

## v1.01 (980812)

### Problems fixed:

Connection hangup with telnet Slow telnet connection

## v1.00 beta 01 (980507)

### New features:

None.

### Problems fixed:

None.

### Known limitations:

- tar archive instead of standard package format (rpm).
- FDDI statistic is empty.
- not tested with 2.1.xx kernels
- integration in kernel not tested
- not tested simultaneously with FDDI adapters from other vendors.
- only X86 processors supported.
- SBA (Synchronous Bandwidth Allocator) parameters can not be configured.
- does not work on some COMPAQ machines. See the PCI howto document for details about this problem.
- data corruption with kernel versions below 2.0.33.