Packet CPANEL
version 3.6.1

The fli4l-Team
email: `team@fli4l.de`

October 15, 2011

Contents

1 Documentation of packet CPANEL

1.1 OPT_CPANEL

1.1.1 Introduction

This packet allowes to connect up to four buttons to the serial port of the fli4l router. Pressing one key triggers a system command, for example halt or reboot. The buttons can be used free. There are 14 variations possible (theoretically there are 15 possibilities, but with the 15th the hardware does not work).

The power / status LED (LED2) lights green as soon as the circuit is ready. During processing a command, the LED blinks. LED1 can be used free (further details below).

1.1.2 Keymapping

The keys match the following values:

- Key 1 = 1

- Key 2 = 2

- Key 3 = 4

- Key 4 = 8

If multiple keys are pressed simultanously the values are added together. This gives the function number for the command.

The commands to be executed are inserted into these lines:: `OPT_CPANEL_FUNKTION1`='command' Some commands require the full pathname.

Some Examples:

```
fli4lctrl dial pppoe Dial in into DSL
fli4lctrl hangup pppoe Drop the DSL connection
isdnctrl dial ippp0 Dial in into ISDN
isdnctrl hangup ippp0 Drop the ISDN connection
/sbin/reboot Reboot router
/sbin/halt Shutdown router
```

1.1.3 Programm the status display

There are four possibilities to map the status LED.
DSL:
Determine and show only the DSL status.

ISDN:
Determine and show the ISDN status. All circuits are sumarized. If at least one ISDN circuit is online, the LED1 lights.

DSLISDN:
Determine and show both DSL and ISDN status of all circuits.

SCRIPT:
Establish an own query. Take care of the following:

- Insert only the commands.

- #!/bin/sh will be added automatically.

- To light LED1 'on' has to be written into /var/run/cpanel.status (without ' ').

- To clear LED1 'off' has to be written into /var/run/cpanel.status

- To let the LED blink, 'blink' has to be written into /var/run/cpanel.status. The LED1 will blink until it is set to 'off' or 'on'.

Example:
This entry queries the DSL status:

```
echo off > /var/run/cpanel.status
fli4lctrl status | grep online >/dev/null && echo on > /var/run/cpanel.status
```

Hint:: Insert only if you know what you do. A faulty entry can cause that cpanel doesn't start or work as expected.

1.1.4 Troubleshooting

Hardware

If it doesn't work instantly, check your circuit. Take care of the right pins of your PC plug. If your router still has a 25 pin serial port the pinout is different to the one in the circuit drawing!!! If there is no error in your circuit, check the cable from your mainboard to the plug at the case. As there is no standard by the mainboard manufacturers there are different cables available. In doubt, check your mainboard user guide.

Software

First check if cpanel starts at boottime. Near the end of the boot should a message appear. You can look at the process list by typing 'ps ax' at the console. If there is no cpanel in the list, you probably configured in config/cpanel.txt the item OPT_CPANEL='yes' to 'no'. A further source of error could be the graphics card. If you don't have a graphics cart in your router, the first serial port (COM1) is used for the console. Then you have to configure CPANEL_PORT='/dev/ttyS0' to '/dev/ttyS1'. Of course the circuit has to be connected into COM2.
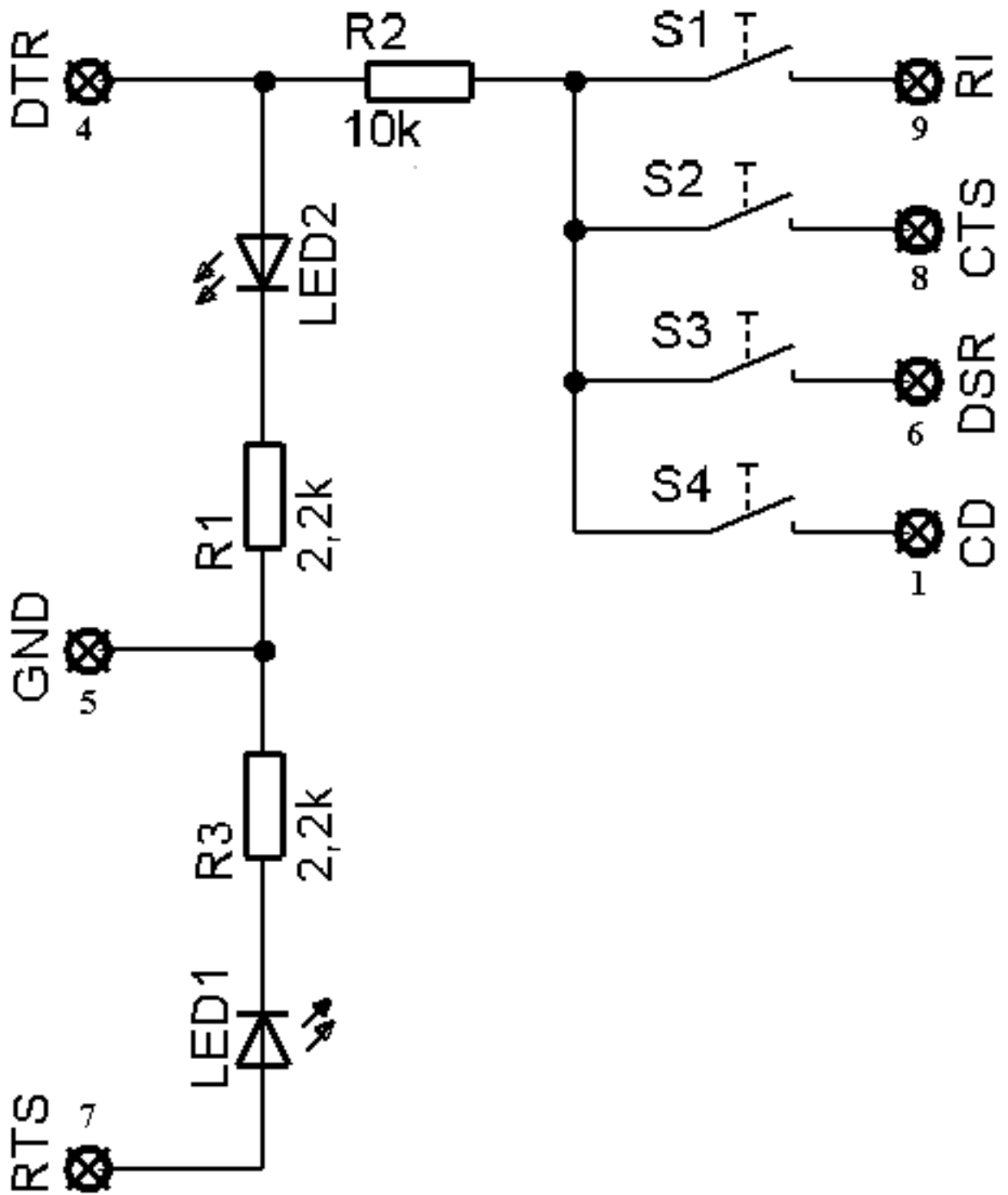
Figure 1.1: Der Schaltplan für die Schaltung

1.1.5 Allgemeines

Important: *Ich übernehme keine Haftung für evtl. Schäden!*

Probleme, Erfolgsberichte und Verbesserungsvorschläge bitte in die Newsgroup slpine.fli4l.opt posten.

Vielen Dank das Sie diese Dokumentation gelesen haben. Jetzt kann ich nur noch viel Spaß mit cpanel wünschen.

A Appendix of packet CPANEL

List of Figures

List of Tables