

**Paket KERNEL\_5\_4**  
**Version 4.0.0-trunk-rpi-r60717**

Das fli4l-Team  
E-Mail: [team@fli4l.de](mailto:team@fli4l.de)

23. August 2022

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# 1 Dokumentation des Pakets KERNEL\_5\_4

## 1.1 Kernel 5.4

Dieses Kapitel dokumentiert die verfügbaren Treiber des Linux-Kernels in der Version 5.4, bereitgestellt vom Paket kernel\_5\_4.

### 1.1.1 Netzwerkkartentreiber

Dieser Abschnitt listet alle von diesem Kernel unterstützten Netzwerkkartentreiber auf. Dabei wird zwischen LAN-Treibern für kabelgebundene Netzwerke und WLAN-Treibern für drahtlose Netzwerke unterschieden. Treiber für drahtlose Netzwerke benötigen zusätzlich zum base- und diesem Kernel-Paket das Paket “wlan”.

Tabelle 1.1: Verfügbare LAN-Adapter-Treiber in Linux 5.4

| Bus     | NET_DRV_x      | Kartenfamilie  |
|---------|----------------|--|
| pcmcia  | 3c574_cs       | 3Com 3c574 series PCMCIA ethernet                            |
| pcmcia  | 3c589_cs       | 3Com 3c589 series PCMCIA ethernet                            |
| usb     | asix           | ASIX AX8817X based USB 2.0 Ethernet Devices                  |
| usb     | atusb          | ATUSB IEEE 802.15.4  |
| usb     | ax88179_178a   | ASIX AX88179/178A based USB 3.0/2.0 Gigabit Ethernet Devices |
| pcmcia  | axnet_cs       | Asix AX88190 PCMCIA ethernet                                 |
| usb     | catc           | CATC EL1210A NetMate USB Ethernet                            |
| usb     | cdc_eem        | USB CDC EEM  |
| usb     | cdc_ether      | USB CDC Ethernet devices                                     |
| usb     | cdc_mbim       | USB CDC MBIM host  |
| usb     | cdc_ncm        | USB CDC NCM host   |
| usb     | cdc_subset     | Simple 'CDC Subset' USB networking links                     |
| usb     | ch9200         | QinHeng CH9200 USB Network device                            |
| usb     | cx82310_eth    | Conexant CX82310-based ADSL router USB ethernet              |
| usb     | dm9601         | Davicom DM96xx USB 10/100 ethernet devices                   |
| virtual | dummy          | Dummy Network Interface                                      |
| pcmcia  | fmvj18x_cs     | fmvj18x and compatible PCMCIA ethernet                       |
| usb     | gl620a         | GL620-USB-A Host-to-Host Link cables                         |
| usb     | hso            | USB High Speed Option  |
| usb     | huawei_cdc_ncm | USB CDC NCM host driver with encapsulated protocol support   |
| usb     | int51x1        | Intellon usb powerline adapter                               |

*(wird auf der nächsten Seite fortgesetzt)*

Tabelle 1.1: Verfügbare LAN-Adapter-Treiber in Linux 5.4 (fortgesetzt)

| Bus    | NET_DRV_x   | Kartenfamilie   |
|--------|-------------|---|
| usb    | ipheth      | Apple iPhone USB Ethernet   |
| usb    | kalmia      | Samsung Kalmia USB network  |
| usb    | kaweth      | KL5USB101 USB Ethernet  |
| usb    | lan78xx     | LAN78XX USB 3.0 Gigabit Ethernet Devices  |
| usb    | lg-vl600    | LG-VL600 modem's ethernet link  |
| usb    | mcs7830     | USB to network adapter MCS7830)   |
| usb    | net1080     | NetChip 1080 based USB Host-to-Host Links   |
| pcmcia | nmclan_cs   | New Media PCMCIA ethernet   |
| pcmcia | pcnet_cs    | NE2000 compatible PCMCIA ethernet   |
| usb    | pegasus     | Pegasus/Pegasus II USB Ethernet   |
| usb    | plusb       | Prolific PL-2301/2302/25A1/27A1 USB Host to Host Link   |
| usb    | qmi_wwan    | Qualcomm MSM Interface (QMI) WWAN   |
| usb    | r8152       | Realtek RTL8152/RTL8153 Based USB Ethernet Adapters   |
| usb    | rndis_host  | USB Host side RNDIS   |
| usb    | rtl8150     | rtl8150 based usb-ethernet  |
| pcmcia | smc91c92_cs | SMC 91c92 series PCMCIA ethernet  |
| usb    | smc75xx     | SMSC75XX USB 2.0 Gigabit Ethernet Devices   |
| usb    | smc95xx     | SMSC95XX USB 2.0 Ethernet Devices   |
| usb    | sr9700      | SR9700 one chip USB 1.1 USB to Ethernet device from <a href="http://www.corechip-sz.com/">http://www.corechip-sz.com/</a> |
| usb    | sr9800      | SR9800 USB 2.0 USB2NET Dev : <a href="http://www.corechip-sz.com">http://www.corechip-sz.com</a>                          |
| pcmcia | xirc2ps_cs  | Xircom PCMCIA ethernet  |
| usb    | zaurus      | Sharp Zaurus PDA, and compatible products   |

Tabelle 1.2: Verfügbare WLAN-Adapter-Treiber in Linux 5.4

| Bus    | NET_DRV_x    | Kartenfamilie                                     |
|--------|--------------|---|
| usb    | 8192cu       | Realtek Wireless Lan                              |
| isa    | airo         | Cisco/Aironet 802.11 wireless ethernet cards      |
| pcmcia | airo_cs      | Cisco/Aironet 802.11 wireless ethernet cards      |
| usb    | ar5523       | Atheros AR5523 based USB dongles                  |
| usb    | at76c50x-usb | Atmel at76x USB Wireless LAN                      |
| usb    | ath6kl_usb   | Driver support for Atheros AR600x USB devices     |
| usb    | ath9k_htc    | Atheros driver 802.11n HTC based wireless devices |
| pcmcia | atmel_cs     | Atmel at76c50x 802.11 wireless ethernet cards     |
| pci    | b43          | Broadcom B43 wireless                             |
| pci    | b43legacy    | Broadcom B43legacy wireless                       |

*(wird auf der nächsten Seite fortgesetzt)*

Tabelle 1.2: Verfügbare WLAN-Adapter-Treiber in Linux 5.4 (fortgesetzt)

| <b>Bus</b> | <b>NET_DRV_x</b> | <b>Kartenfamilie</b>   |
|------------|------------------|--|
| usb        | brcmfmac         | Broadcom 802.11 wireless LAN fullmac                             |
| pci        | brcmsmac         | Broadcom 802.11n wireless LAN                                    |
| usb        | carl9170         | Atheros AR9170 802.11n USB wireless                              |
| pcmcia     | hostap_cs        | Intersil Prism2-based 802.11 wireless LAN cards (PC Card)        |
| pcmcia     | libertas_cs      | Marvell 83xx compact flash WLAN cards                            |
| usb        | libertas_tf_usb  | 8388 USB WLAN Thinfirm   |
| virtual    | mac80211_hwsim   | Software simulator of 802.11 radio(s) for mac80211               |
| usb        | mt7601u          |  |
| usb        | mwifiex_usb      | Marvell WiFi-Ex USB Driver version1.0                            |
| pcmcia     | orinoco_cs       | PCMCIA Lucent Orinoco, Prism II based and similar wireless cards |
| usb        | orinoco_usb      | Orinoco wireless LAN cards using EZUSB bridge                    |
| usb        | p54usb           | Prism54 USB wireless   |
| pcmcia     | ray_cs           | Raylink/WebGear wireless LAN                                     |
| usb        | rndis_wlan       | RNDIS based USB Wireless adapters                                |
| usb        | rsi_usb          | Common USB layer for RSI drivers                                 |
| usb        | rt2500usb        | Ralink RT2500 USB Wireless LAN                                   |
| usb        | rt2800usb        | Ralink RT2800 USB Wireless LAN                                   |
| usb        | rt73usb          | Ralink RT73 USB Wireless LAN                                     |
| usb        | rtl8187          | RTL8187/RTL8187B USB wireless                                    |
| usb        | rtl8192cu        | Realtek 8192C/8188C 802.11n USB wireless                         |
| usb        | rtl8xxxu         | RTL8XXXu USB mac80211 Wireless LAN                               |
| usb        | sierra_net       | USB-to-WWAN Driver for Sierra Wireless modems                    |
| pcmcia     | spectrum_cs      | Symbol Spectrum24 Trilogy cards with firmware downloader         |
| usb        | usb8xxx          | 8388 USB WLAN  |
| pcmcia     | wl3501_cs        | Planet wl3501 wireless   |
| usb        | zd1201           | ZyDAS ZD1201 based USB Wireless adapters                         |
| usb        | zd1211rw         | USB driver for devices with the ZD1211 chip                      |

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