

Paket KERNEL_5_4
Version 4.0.0-stable-x86-r60789

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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 |
|--------|--------------|--|
| isa | 3c509 | 3Com Etherlink III (3c509, 3c509B, 3c529, 3c579) ethernet |
| isa | 3c515 | 3Com 3c515 Corkscrew |
| pcmcia | 3c574_cs | 3Com 3c574 series PCMCIA ethernet |
| pcmcia | 3c589_cs | 3Com 3c589 series PCMCIA ethernet |
| pci | 3c59x | 3Com 3c59x/3c9xx ethernet |
| pci | 8139cp | RealTek RTL-8139C+ series 10/100 PCI Ethernet |
| pci | 8139too | RealTek RTL-8139 Fast Ethernet |
| pci | acenic | AceNIC/3C985/GA620 Gigabit Ethernet |
| pci | alx | Qualcomm Atheros(R) AR816x/AR817x PCI-E Ethernet Network |
| pci | amd-xgbe | AMD 10 Gigabit Ethernet |
| pci | amd8111e | AMD8111 based 10/100 Ethernet Controller |
| usb | aqc111 | Aquantia AQtion USB to 5/2.5GbE Controllers |
| usb | asix | ASIX AX8817X based USB 2.0 Ethernet Devices |
| pci | atl1 | Atheros L1 Gigabit Ethernet |
| pci | atl1c | Qualcomm Atheros 100/1000M Ethernet Network |
| pci | atl1e | Atheros 1000M Ethernet Network |
| pci | atl2 | Atheros Fast Ethernet Network |
| isa | atp | RealTek RTL8002/8012 parallel port Ethernet |
| usb | atusb | ATUSB IEEE 802.15.4 |
| usb | ax88179_178a | ASIX AX88179/178A based USB 3.0/2.0 Gigabit Ethernet Devices |

(wird auf der nächsten Seite fortgesetzt)

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

| Bus | NET_DRV_x | Kartenfamilie |
|---------|-------------|---|
| pcmcia | axnet_cs | Asix AX88190 PCMCIA ethernet |
| pci | b44 | Broadcom 44xx/47xx 10/100 PCI ethernet |
| pci | be2net | Emulex OneConnect NIC Driver 12.0.0.0 |
| pci | bnx | QLogic BR-series 10G PCIe Ethernet |
| pci | bnx2 | QLogic BCM5706/5708/5709/5716 |
| pci | bnx2x | Broadcom NetXtreme II BCM57710/ 57711/ 57711E/ 57712/ 57712_MF/ 57800/ 57800_MF/ 57810/ 57810_MF/ 57840/ 57840_MF |
| pci | bnxt_en | Broadcom BCM573xx network |
| pci | cassini | Sun Cassini(+) 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 |
| pci | cxgb | Chelsio 10Gb Ethernet |
| pci | cxgb3 | Chelsio T3 Network |
| pci | cxgb4 | Chelsio T4/T5/T6 Network |
| pci | cxgb4vf | Chelsio T4/T5/T6 Virtual Function (VF) Network |
| pci | de2104x | Intel/Digital 21040/1 series PCI Ethernet |
| isa | de4x5 | Digital DE425, DE434, DE435, DE450, DE500 |
| pci | defxx | DEC FDDIcontroller TC/EISA/PCI (DEFTA/DEFEA/DEFPA) driver v1.11 2014/07/01 |
| pci | dl2k | D-Link DL2000-based Gigabit Ethernet Adapter |
| usb | dm9601 | Davicom DM96xx USB 10/100 ethernet devices |
| pci | dmfe | Davicom DM910X fast ethernet |
| virtual | dummy | Dummy Network Interface |
| pci | dwc-xlgmac | Synopsys DWC XLGMAC |
| pci | e100 | Intel(R) PRO/100 Network |
| pci | e1000 | Intel(R) PRO/1000 Network |
| pci | e1000e | Intel(R) PRO/1000 Network |
| pci | ec_bhf | |
| pci | ena | Elastic Network Adapter (ENA) |
| pci | enic | Cisco VIC Ethernet NIC |
| pci | epic100 | SMC 83c170 EPIC series Ethernet |
| pci | et131x | 10/100/1000 Base-T Ethernet Driver for the ET1310 by Agere Systems |
| pci | fealnx | Myson MTD-8xx 100/10M Ethernet PCI Adapter |
| pci | fm10k | Intel(R) Ethernet Switch Host Interface |

(wird auf der nächsten Seite fortgesetzt)

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

| Bus | NET_DRV_x | Kartenfamilie |
|----------|----------------|--|
| pcmcia | fmvj18x_cs | fmvj18x and compatible PCMCIA ethernet |
| pci | forcedeth | Reverse Engineered nForce ethernet |
| usb | gl620a | GL620-USB-A Host-to-Host Link cables |
| pci | gve | gVNIC |
| pci | hamachi | Packet Engines 'Hamachi' GNIC-II Gigabit Ethernet |
| eisa,pci | hp100 | HP CASCADE Architecture Driver for 100VG-AnyLan Network Adapters |
| usb | hso | USB High Speed Option |
| usb | huawei_cdc_ncm | USB CDC NCM host driver with encapsulated protocol support |
| pci | i40e | Intel(R) Ethernet Connection XL710 Network |
| pci | iavf | Intel(R) Ethernet Adaptive Virtual Function Network |
| pci | ice | Intel(R) Ethernet Connection E800 Series Linux |
| pci | igb | Intel(R) Gigabit Ethernet Network |
| pci | igbvf | Intel(R) Gigabit Virtual Function Network |
| pci | igc | Intel(R) 2.5G Ethernet Linux |
| usb | int51x1 | Intellon usb powerline adapter |
| usb | ipheth | Apple iPhone USB Ethernet |
| pci | ixgb | Intel(R) PRO/10GbE Network |
| pci | ixgbe | Intel(R) 10 Gigabit PCI Express Network |
| pci | ixgbevf | Intel(R) 10 Gigabit Virtual Function Network |
| pci | jme | JMicron JMC2x0 PCI Express Ethernet |
| usb | kalmia | Samsung Kalmia USB network |
| usb | kaweth | KL5USB101 USB Ethernet |
| pci | ks884x | KSZ8841/2 PCI network |
| usb | lan78xx | LAN78XX USB 3.0 Gigabit Ethernet Devices |
| isa | lance | AMD LANCE and PCnet (AT1500, NE2100) |
| usb | lg-vl600 | LG-VL600 modem's ethernet link |
| usb | mcs7830 | USB to network adapter MCS7830) |
| pci | mlx4_core | Mellanox ConnectX HCA low-level |
| pci | mlx4_en | Mellanox ConnectX HCA Ethernet |
| pci | mlx5_core | Mellanox 5th generation network adapters (ConnectX series) core |
| pci | mlxsw_spectrum | Mellanox Spectrum |
| pci | mlxsw_switchib | Mellanox SwitchIB and SwitchIB-2 |
| pci | mlxsw_switchx2 | Mellanox SwitchX-2 |
| pci | myri10ge | Myricom 10G driver (10GbE) |
| pci | natsemi | National Semiconductor DP8381x series PCI Ethernet |
| isa | ne | NE1000/NE2000 ISA/PnP Ethernet |
| pci | ne2k-pci | PCI NE2000 clone |
| usb | net1080 | NetChip 1080 based USB Host-to-Host Links |
| pci | netxen_nic | QLogic/NetXen (1/10) GbE Intelligent Ethernet |

(wird auf der nächsten Seite fortgesetzt)

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

| Bus | NET_DRV_x | Kartenfamilie |
|--------|-------------|---|
| isa | ni65 | AMD Lance Am7990 |
| pci | niu | Sun Neptun Ethernet |
| pcmcia | nmclan_cs | New Media PCMCIA ethernet |
| pci | ns83820 | National Semiconductor DP83820 10/100/1000 |
| pci | pch_gbe | EG20T PCH Gigabit ethernet |
| pci | pcnet32 | PCnet32 and PCnetPCI based ethercards |
| 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 |
| pci | qede | QLogic FastLinQ 4xxxx Ethernet |
| pci | qla3xxx | QLogic ISP3XXX Network Driver v2.03.00-k5 |
| pci | qlcnlc | QLogic 1/10 GbE Converged/Intelligent Ethernet |
| usb | qmi_wwan | Qualcomm MSM Interface (QMI) WWAN |
| pci | r6040 | RDC R6040 NAPI PCI FastEthernet |
| usb | r8152 | Realtek RTL8152/RTL8153 Based USB Ethernet Adapters |
| pci | r8169 | RealTek RTL-8169 Gigabit Ethernet |
| usb | rndis_host | USB Host side RNDIS |
| usb | rtl8150 | rtl8150 based usb-ethernet |
| pci | s2io | Neterion 10GbE Server NIC |
| isa | sb1000 | General Instruments SB1000 |
| pci | sc92031 | Silan SC92031 PCI Fast Ethernet Adapter |
| pci | sfc | Solarflare network |
| pci | sfc-falcon | Solarflare Falcon network |
| pci | sis190 | SiS sis190/191 Gigabit Ethernet |
| pci | sis900 | SiS 900 PCI Fast Ethernet |
| pci | skfp | SysKonnect FDDI PCI adapter |
| pci | skge | SysKonnect Gigabit Ethernet |
| pci | sky2 | Marvell Yukon 2 Gigabit Ethernet |
| isa | smc-ultra | SMC Ultra/EtherEZ ISA/PnP Ethernet |
| isa | smc9194 | SMC's 9000 series of Ethernet cards |
| pcmcia | smc91c92_cs | SMC 91c92 series PCMCIA ethernet |
| usb | smc75xx | SMSC75XX USB 2.0 Gigabit Ethernet Devices |
| pci | smc9420 | SMSC LAN9420 |
| usb | smc95xx | SMSC95XX USB 2.0 Ethernet Devices |
| usb | sr9700 | SR9700 one chip USB 1.1 USB to Ethernet device from http://www.corechip-sz.com/ |
| usb | sr9800 | SR9800 USB 2.0 USB2NET Dev : http://www.corechip-sz.com |
| pci | starfire | Adaptec Starfire Ethernet |
| pci | stmmac-pci | STMMAC 10/100/1000 Ethernet PCI |

(wird auf der nächsten Seite fortgesetzt)

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

| Bus | NET_DRV_x | Kartenfamilie |
|--------|--------------|--|
| pci | sundance | Sundance Alta Ethernet |
| pci | sungem | Sun GEM Gbit ethernet |
| pci | sunhme | Sun HappyMealEthernet(HME) 10/100baseT ethernet |
| pci | tehuti | Tehuti Networks(R) Network |
| pci | tg3 | Broadcom Tigon3 ethernet |
| pci | tlan | TI ThunderLAN based ethernet PCI adapters |
| pci | tulip | Digital 21*4* Tulip ethernet |
| pci | typhoon | 3Com Typhoon Family (3C990, 3CR990, and variants) |
| pci | uli526x | ULi M5261/M5263 fast ethernet |
| pci | via-rhine | VIA Rhine PCI Fast Ethernet |
| pci | via-velocity | VIA Networking Velocity Family Gigabit Ethernet Adapter |
| pci | vxge | Neterion's X3100 Series 10GbE PCIe I/OVirtualized Server Adapter |
| isa | wd | Western Digital wd8003/wd8013 ; SMC Elite, Elite16 ethernet |
| pci | winbond-840 | Winbond W89c840 Ethernet |
| pcmcia | xirc2ps_cs | Xircom PCMCIA ethernet |
| pci | xircom_cb | Xircom Cardbus ethernet |
| pci | yellowfin | Packet Engines Yellowfin G-NIC Gigabit 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 |
|---------|--------------|--|
| pci | adm8211 | IEEE 802.11b wireless cards based on ADMtek ADM8211 |
| isa,pci | 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 |
| pci | ath10k_pci | Driver support for Qualcomm Atheros 802.11ac WLAN PCIe/AHB devices |
| pci | ath5k | 5xxx series of Atheros 802.11 wireless LAN cards |
| usb | ath6kl_usb | Driver support for Atheros AR600x USB devices |
| pci | ath9k | Atheros 802.11n wireless LAN cards |
| usb | ath9k_htc | Atheros driver 802.11n HTC based wireless devices |
| pcmcia | atmel_cs | Atmel at76c50x 802.11 wireless ethernet cards |
| pci | atmel_pci | Atmel at76c50x 802.11 wireless ethernet cards |

(wird auf der nächsten Seite fortgesetzt)

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

| Bus | NET_DRV_x | Kartenfamilie |
|----------|-----------------|--|
| pci | b43 | Broadcom B43 wireless |
| pci | b43legacy | Broadcom B43legacy wireless |
| pci, 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) |
| pci | hostap_pci | Intersil Prism2.5-based 802.11 wireless LAN PCI cards |
| pci | hostap_plx | Intersil Prism2-based 802.11 wireless LAN cards (PLX) |
| pci | ipw2100 | Intel(R) PRO/Wireless 2100 Network |
| pci | ipw2200 | Intel(R) PRO/Wireless 2200/2915 Network |
| pci | iwl3945 | Intel(R) PRO/Wireless 3945ABG/BG Network Connection driver for Linux |
| pci | iwl4965 | Intel(R) Wireless WiFi 4965 driver for Linux |
| pci | iwlwifi | Intel(R) Wireless WiFi driver for Linux |
| 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 | |
| pci | mt7603e | |
| pci | mt7615e | |
| pci | mt76x0e | |
| usb | mt76x0u | |
| pci | mt76x2e | |
| usb | mt76x2u | |
| pci | mwifiex_pcie | Marvell WiFi-Ex PCI-Express Driver version 1.0 |
| usb | mwifiex_usb | Marvell WiFi-Ex USB Driver version1.0 |
| pci | mwl8k | Marvell TOPDOG(R) 802.11 Wireless Network |
| pcmcia | orinoco_cs | PCMCIA Lucent Orinoco, Prism II based and similar wireless cards |
| pci | orinoco_nortel | wireless LAN cards using the Nortel PCI bridge |
| pci | orinoco_plx | wireless LAN cards using the PLX9052 PCI bridge |
| pci | orinoco_tmd | wireless LAN cards using the TMD7160 PCI bridge |
| usb | orinoco_usb | Orinoco wireless LAN cards using EZUSB bridge |
| pci | p54pci | Prism54 PCI wireless |
| 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 |
| pci | rt2400pci | Ralink RT2400 PCI & PCMCIA Wireless LAN |
| pci | rt2500pci | Ralink RT2500 PCI & PCMCIA Wireless LAN |
| usb | rt2500usb | Ralink RT2500 USB Wireless LAN |

(wird auf der nächsten Seite fortgesetzt)

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

| Bus | NET_DRV_x | Kartenfamilie |
|------------|------------------|--|
| pci | rt2800pci | Ralink RT2800 PCI & PCMCIA Wireless LAN |
| usb | rt2800usb | Ralink RT2800 USB Wireless LAN |
| pci | rt61pci | Ralink RT61 PCI & PCMCIA Wireless LAN |
| usb | rt73usb | Ralink RT73 USB Wireless LAN |
| usb | rtl8187 | RTL8187/RTL8187B USB wireless |
| pci | rtl8188ee | Realtek 8188E 802.11n PCI wireless |
| pci | rtl818x_pci | RTL8180 / RTL8185 / RTL8187SE PCI wireless |
| pci | rtl8192ce | Realtek 8192C/8188C 802.11n PCI wireless |
| usb | rtl8192cu | Realtek 8192C/8188C 802.11n USB wireless |
| pci | rtl8192de | Realtek 8192DE 802.11n Dual Mac PCI wireless |
| pci | rtl8192ee | Realtek 8192EE 802.11n PCI wireless |
| pci | rtl8192se | Realtek 8192S/8191S 802.11n PCI wireless |
| pci | rtl8723ae | Realtek 8723E 802.11n PCI wireless |
| pci | rtl8723be | Realtek 8723BE 802.11n PCI wireless |
| pci | rtl8821ae | Realtek 8821ae 802.11ac PCI 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 |
| pci | wil6210 | 60g WiFi WIL6210 card |
| pcmcia | wl3501_cs | Planet wl3501 wireless |
| usb | zd1201 | ZyDAS ZD1201 based USB Wireless adapters |
| usb | zd1211rw | USB driver for devices with the ZD1211 chip |

Abbildungsverzeichnis

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