

Netzwerkkarten

(i386)

FREEBSD 5.x / 6.x



Da FreeBSD einer ständigen Weiterentwicklung unterliegt, kann es unter Umständen möglich sein, dass die eine oder andere Komponente in diesem Flyer nicht enthalten ist. In diesem Fall besuchen Sie bitte die Homepage von FreeBSD:

www.freebsd.org

Unter „Latest Releases“ finden Sie einen Hinweis, der Sie zum gewünschten Abschnitt weiterleitet.

Des Weiteren stehen Ihnen die Mitglieder des deutschsprachigen BSD-Forums unter

www.bsdforen.de

gerne mit Rat und Tat zur Verfügung.

Hinweis: Es sind nur die bekanntesten Netzwerk-Adapter und -Chipsätze aufgelistet. Die Aufstellung enthält auch USB-Netzwerkkarten. Netzwerkadapter für wireless-LAN (WLAN) sind in einem separatem Flyer zusammengestellt.

Netzwerkkarten:

- ▶ 3Com: 3c19250, 3C1 CF, 3C3SH573BT, 3C575TX, 3CCFE575BT, 3CXFE575BT, 3CCFE575CT, 3CXFE575CT, 3CCFEM656, 3CCFEM656B, and 3CCFEM656C, 3CXFEM656, 3CXFEM656B, 3CXFEM656C, 3c450, 3c460 HomeConnect, 3c503 Etherlink II, 3C507, 3C509B-TP, 3C509B-BNC, 3C509B-Combo, 3C509B-TPO, 3C509B-TPC ISA, 3C509-TP, 3C509-BNC, 3C509-Combo, 3C509-TPO, 3C509-TPC ISA, 3C529, 3C529-TP MCA, 3c555, 3c556, 3c556B, 3C562/3C563 PCMCIA, 3C569B-J-TPO, 3C569B-J-COMBO CBUS, 3C574-TX, 3CCFE574BT, 3CXFE574BT, 3C3FE574BT PCMCIA, 3C579-TP, 3C579-BNC EISA, 3C589, 3C589B, 3C589C, 3C589D, 3CXE589DT PCMCIA, 3c590 EtherLink III PCI, 3c592 EtherLink III EISA, 3c595 Fast EtherLink III PCI, 3c597 Fast EtherLink III EISA, 3c900B-COMBO, 3c900B-FL, 3c900B-TPC, 3c900B-TPO, 3c900-COMBO, 3c900-TPO, 3c905B-COMBO, 3c905B-FX, 3c905B-T4, 3c905B-TX, 3c905C-TX, 3c905-T4, 3c905-TX, 3c905-TX, 3c905B-TX 3c905C-TX, 3c920B-EMB, 3C940, 1000baseT, 3c980, 3c980B, 3c980C, 3c985B-SX (Tigon 2), 3c996-T, 3CCFEM556B, 3CCFEM556B1 PCMCIA, 3cR990B-SRV, 3cR990B-TXM, 3CR990SVR95, 3CR990SVR97, 3CR990-TX-95, 3CR990-TX-97, 3cSOHO100-TX, 3CXE589EC, 3CCE589EC, 3CXE589ET, 3CCE589ET PCMCIA, Megahertz 3CCEM556, 3CXEM556, 3CCEM556B, 3CXEM556B PCMCIA, Megahertz X-Jack Ethernet PC-Card CC-10BT, OfficeConnect 10/100B (ADMtek AN985 Centaur-P), OfficeConnect 3CXSH572BT, 3CCSH572BT PCMCIA
- ▶ Abocom: FE2500, UFE1000, DSB650TX_NA, URE 450
- ▶ Accton: "Cheetah" EN1207D (MPX 5030/5038; RealTek 8139 clone), EN1217 (98715A), EN1644 (old model), EN1646 (old model), EN2203 (old model) (110pin) (flags 0xd0000), EN2212/EN2216/UE2216, EN2242 MiniPCI, Fast EtherCard-16 (EN2226), USB320-EC, SpeedStream
- ▶ Adaptec: ANA-6944/TX, ANA-62011, ANA-62020, ANA-62022, ANA-62044, ANA-69011
- ▶ Addtron: AEG320T
- ▶ Adico: AE310TX (98715A)
- ▶ ADMtek: AL981 Comet, AN985 Centaur, ADM9511 Centaur II, ADM9513 Centaur II, AN986, AN8511
- ▶ ADS Technologies: USB-10BT
- ▶ Alfa Inc: GFC2204 (ASIX AX88140A)
- ▶ Allied Telesis: CentreCOM LA100-PCM_V2, LA-98, LA-PCI, RE1000, RE1000Plus, ME1500 (110-pin), SIC-98, SIC-98NOTE (110pin), SIU-98, SIU-98-D
- ▶ Allied Telesyn: AT2500TX, AT2550
- ▶ Alloy Computer Products: EtherGOLD 1439E 10/100 (8139C+)
- ▶ Alteon: AceNIC V
- ▶ AmbiCom: 10BaseT card
- ▶ AMD: Am53C974, Am79C970, Am79C974 Pcnnet-PCI, Am79C970A PCnet-PCI II, Am79C971 Pcnnet-FAST, Am79C972 Pcnnet-FAST+, Am79C973, Am79C975 PCnet-FAST III,

- Am79C976 Pcnnet-PRO, PCnet/Home HomePNA
- ▶ Aopen/Acer: ALN-320
- ▶ AOX: USB101
- ▶ Ark: PC SOHO-GA2500T, SOHO-GA2000T, AR-P500 Ethernet
- ▶ Asante: FriendlyNet GigaNIX 1000TA/TPC, GigaNIX1000T, PCI 1000BASE-SX
- ▶ ASIX Electronics: AX88140A, AX88141
- ▶ AT&T: EN100, Starlan 10, Starlan Fiber
- ▶ Bay Networks: NETGEAR FA410TXC Fast Ethernet
- ▶ Belkin: F5D5000, F5D5005, F5U011, F5U111
- ▶ Billionton: 10/100 FastEthernet USBKR2, USB100, USB100LP, USB100EL, USBE100
- ▶ Broadcom: BCM4401 based Fast Ethernet adapters
- ▶ Buffalo (Melco INC.) : LPC-CB-CLX, LUA-KTX, LUA-U2-KTX
- ▶ Cnet: BC40, Pro110B (ASIX AX88140A), Pro120A (98715A or 98713A), CNet Pro120B (98715)
- ▶ Cogent: EM100FX and EM440TX
- ▶ Compaq: Evo N1015v, HNE-300, Netelligent 10, 10/100, 10/100 Dual-Port, 10/100 PC Card (CPQ-10/100), 10/100 Proliant, 10/100 TX Embedded UTP, 10/100 TX UTP, 10 T PCI UTP/Coax, 3P, 3P Integrated, 3P w/BNC
- ▶ Compex: Net-A adapter, RL100-TX (98713 or 98713A)
- ▶ CompUSA no-name: 10/100 PCI Ethernet NIC
- ▶ Conexant: LANfinity RS7112 (miniPCI)
- ▶ Contec: C-NET(98), RT-1007(98), C-NET(9N), C-NET(98)E-A, C-NET(98)L-A, C-NET(98)P, C-NET(98)P2, C-NET (9N)E, C-NET (9N)C (ExtCard), C-NET(98)S, C-NET(PC)C PCMCIA Ethernet, C-NET(PI)-100TX
- ▶ Corega: CG-LAPCIGT, Ether98-T, Ether FEther USB-T, FEther USB-TX, FEther USB-TXS, Ether PCC-T/EtherII PCC-T/FEther PCC-TXF/PCC-TXD, FastEther PCI-TX, FEther CB-TXD, FEtherII CB-TXD, FEther USB-TXC, USB-T
- ▶ Davicom: DM9009, DM9100, DM9102 and DM9102A
- ▶ DEC/Intel: 21143, DEC DE435, DE425, DEC DE450, DE500, DE305
- ▶ Dell: integrated BCM5704C, BCM5700 NIC, BCM5703 NIC
- ▶ Digital: DE500-BA 10/100, DEPCA, EtherWORKS 1000SX PCI
- ▶ D-Link: DE-298, DE-298P, DE-650/660, DFE-500TX, DFE530-TX, DFE-530TX+, DFE-530TXS, DFE-538TX, DFE-550TX, DFE-570TX, DFE-690TXD, DGE-500SX, DGE-500T, DSB-650, DSB-650TX, DSB-650TX-PNA, DSB-650C, DUBE100, IC-CARD/IC-CARD+ Ethernet
- ▶ Edimax: EP-4103DL CardBus
- ▶ Eiger Labs: EPX-10BT
- ▶ ELECOM: Laned LD-CBL/TXA, Laned LD-CDL/TX, LD-CDF,

LD-CDS, LD-10/100CD, LD-CDWA (DP83902A), LD-98P, LD-BDN, LD-NW801G, LD-PCI2T, LD-PCITS, LD-USBL/TX

- ▶ Elsa Microlink: USB2Ethernet
- ▶ Encore: ENL832-TX 10/100 M PCI
- ▶ Entrega: NET-USB-E45, NET-HUB-3U1E
- ▶ Farallon: EtherMac PCMCIA, NetLINE 10/100 PCI, PN9000SX
- ▶ Fujitsu: FMV-J182, FMV-J182A, MB86960A, MB86965A, MBH10303, MBH10302 PCMCIA, Towa LA501
- ▶ Genius: GF100TXR
- ▶ Gigabyte: 7N400 Pro2 Integrated Gigabit Ethernet (8110S)
- ▶ Hewlett Packard: Vectra 486/66XM, Vectra XU, HP hn210e, PC Lan+ 27247B, 27252A, ProLiant NC7760 , NC7770 PCI-X , NC7781
- ▶ HITACHI: HT-4840-11
- ▶ IBM: Creditcard Ethernet I/II, EtherJet Cardbus Adapter, x235 server integrated BCM5703x NIC (10/100/1000baseTX)
- ▶ ICM: AD-ET2-T, DT-ET-25, DT-ET-T5, IF-2766ET, IF-2771ET, NB-ET-T
- ▶ Intel: EtherExpress 16, Pro/10, Pro/10+, Pro/100 PC Card Mobile Adapter 16 (Pro/100 M16A), InBusiness 10/100, PRO/100+ Management Adapter, PRO/1000 CT, PRO/1000 F (82543), PRO/1000 (82542), PRO/1000 GT(82541PI), PRO/1000 (82546), PRO/1000(82545), PRO/1000 (LX) (82545), PRO/1000 MT (82540), PRO/1000 MT (82541), PRO/1000 MT (82546), PRO/1000 MT (82546EB), PRO/1000 MT (82545), PRO/1000 T (82544), PRO/1000 T (82543), PRO/1000 T (82543), PRO/1000 XF (82544), PRO/1000 XT (82544), PRO/100B / EtherExpressPRO/100 B, PRO/100 MPRO/100 Mobile Cardbus (X3201), PRO/100 S, PRO/100 VE, PRO/10GbE LR, PRO/10GbE SR
- ▶ I-O DATA: ET2/T-PCI, LA/T-98, LA/T-98SB, LA2/T-98, ET/T-98, LA2/T-PCI, DATA PCLATE, USB ETTX
- ▶ Kawasaki: DU-H3E
- ▶ Kingston: KNE100TX (21143, MII), KNE110TX (PNIC 82c169), KNE-PC2, KNE-PCM/x Ethernet, KNU101TX, KTX-9130TX 10/100
- ▶ LevelOne: FPC-0106TX
- ▶ Linksys: EC2T/PCMP100/PCM100, PCMLM56, EG1032 (32-bit PCI), EG1064 (64-bit PCI), EG1032, EtherFast 10/100 PC , Combo PCMCIA Ethernet Card (PCMP100 V2), LNE100TX (PNIC 82c168, 82c169), LNE100TX v2.0 (PNIC II 82c115), LNE100TX v4.0/4.1 (ADMtek AN985 Centaur-P), USB100M, USB10T, USB10T (AN986), USB10TA, USB10TX, USB100TX, USB100H1, USB200M
- ▶ Longshine: LCS-8038TX-R
- ▶ MACNICA: Ethernet ME1 (JEIDA), ME98, NE2098
- ▶ Macronix/Lite-On: 98713, 98713A, 98715, 98715A, 98715AEC-C, 98725, 98727, 98732, 82c115 PNIC II, 82c168 and 82c169 PNIC
- ▶ Matrox FastNIC: 10/100 (PNIC 82c168, 82c169)

- ▶ MELCO: EGY-98, LGH-98, LGY-98, LGY-98-N, IND-SP, IND-SS, LGY-PCI-TR, LGY-PCI-TXC, LGY-PCI-TXL, LPC-T/LPC2-T/LPC2-CLT/LPC2-TX/LPC3-TX/LPC3-CLX, LUA-TX, LUA2-TX
- ▶ Microsoft: MN-120 10/100, MN-130 10/100 PCI
- ▶ Myson: MTD800, MTD803, MTD89X PCI Gigabit Ethernet chip
- ▶ NDC: NE100TX-E, Ethernet Instant-Link, SOHOfware SFA110A (98713A), SOHOfware SFA110A Rev B4 (98715AEC-C)
- ▶ NEC: Gigabit Ethernet, PC-9801-107, PC-9801-108 , PC-9801-77, PC-9801-78, PC-9821Ra20, Rv20, Xv13, Xv20, , PC-9821X-B06 , SV-98/2-B05, B06
- ▶ Netgear: EA101, FA120, FA310-TX Rev. D1, D2 or D3 (PNIC 82c169), FA311-TX (DP83815), FA312-TX (DP83815), FA-410TX, FA511, GA302T (10/100/1000baseTX), GA620, GA620T, GA621, GA622T
- ▶ Novell: NE1000, NE2000, NE2100, NE2100, NE32-VL
- ▶ Olicom: OC-2135/2138 10/100 TX UTP, OC-2325/OC-2326 10/100 TX UTP, OC2220
- ▶ OvisLink: LEF-8129TX, LEF-8139TX
- ▶ PLANEX COMMUNICATIONS Inc.: GN-1200TC (8169S), EN-2298-C, EN-2298P-T, EN-2298-T, ENW-8300-T, FNW-3600-T, FNW-3602-T, FNW-3800-TX, UE-200TX
- ▶ RACAL Interlan: NI5210
- ▶ Racore: 8148 10baseT/100baseTX/100baseFX, 8165 10/100baseTX
- ▶ RATOC: REX-5588, REX-9822, REX-4886, and REX-R280, REX-9880/9881/9882/9883
- ▶ RealTek: 8029, 8039
- ▶ SiS: 630, 635, and 735 (chipsets), SK-9521 SK-NET GE-T , SK-9821 SK-NET GE-T, SK-9822 SK-NET GE-T, SK-9841 SK-NET GE-LX, SK-9842 SK-NET GE-LX, SK-9843 SK-NET GE-SX, SK-9844 SK-NET GE-SX
- ▶ SMC: 2102USB, 2104USB, 2202USB, 83c17x (EPIC), 9452TX, Elite Ultra, EtherEZ98, Etherpower 8432, 9332, 9334, EZ Card 10/100 1233A-TX, EZ Card 10/100 PCI 1211-TX, EZ Card 1000 (SMC9462TX), TigerCard 1000 (SMC9462SX), WD8003E, WD8003EBT, WD8003S, WD8003SBT, WD8003W, WD8013EBT, WD8013(W)
- ▶ Sun: PCI Quad FastEthernet Controller, PCI Sun100BaseT , PCI SunSwift, SBus Quad FastEthernet Controller, SBus Sun100BaseT, SBus SunSwift
- ▶ Surecom: EtherPerfect EP-427, NE-34, Technology EP-320G-TX
- ▶ SysKonnect: SK-9D21 (10/100/1000baseTX), SK-9D41 (1000baseSX)
- ▶ TDK: LAC-98012, LAC-98013, LAC-98025, LAC-9N011, LAK-CD021, LAK-CD021A, LAK-CD021BX, LAK-CD031, Grey Cell GCS2000
- ▶ Trendware: TE100-PCIE, TEG-PCITX (32-bit PCI) and TEG-PCITX2

- ▶ Ungermann-Bass: Access/PC N98C+(PC85152, PC85142), Access/NOTE N98(PC86132) (110-pin)
- ▶ VIA: VT86C926
- ▶ Winbond: W89C940
- ▶ Xircom: Cardbus Ethernet 10/100, Cardbus Ethernet II 10/100, Cardbus Realport, CreditCard 10/100 (CE3, CE3B), CreditCard Ethernet + Modem 28 (PS-CEM-28), CreditCard Ethernet + Modem 33 (CEM33), CreditCard Ethernet (PS-CE2-10), CreditCard Ethernet 10/100 + Modem 56 (CEM56), RealPort Ethernet 10/100 + Modem 56 (REM56, REM56G), RealPort Ethernet 10/100 (RE100), RealPort Ethernet 10 (RE10), X3201 (cardbus only)

Sonstige Informationen:

Bitte unbedingt darauf achten, dass viele Netzwerkkarten (PCI-Bus , einige ISA-Bus und USB) den Treiber miibus benötigen!
Netzwerkkarten, die auf einem Realtek RTL8029- oder RTL8039-Chip basieren, machen sehr häufig Probleme.

Seit FreeBSD 5.x gibt es die Möglichkeit, Netzwerkkarten über Windows-Gerätetreiber anzusprechen. Dazu dient der NDIS wrapper.

Hier muss zwischen den FreeBSD-Versionen unterschieden werden:

- ▶ FreeBSD 5.x i386: 32Bit-Systeme und nicht bei amd64 bzw. Intel-Prozessoren mit EM64T-Erweiterung!
- ▶ FreeBSD 6.x: Der NDIS wrapper funktioniert nun auch mit Windows™ x86-64-Treibern in einer amd64-Umgebung.