

# FreeBSD

## Netzwerkkarten

**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, SOHOware SFA110A (98713A), SOHOware 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

**SysKonnnect:** 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 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. Inte-Prozessoren mit EM64T-Erweiterung

**FreeBSD 6.x:** Der NDIS wrapper funktioniert nun auch mit Windows™ x86-64Bit-Treibern in einer amd64-Umgebung



**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, 3CCFEM556BI 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 0xd00000), 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:** Laneed LD-CBL/TXA, Laneed 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 / EtherExpress-PRO/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