

# Device Driver List

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## General Information

### Summary

The document lists the drivers, included in MikroTik RouterOS and the devices that are tested to work with MikroTik RouterOS. If a device is not listed here, it does not mean the device is not supported, it still may work. It just means that the device was not tested.

### Ethernet

Packages required: *system*

### Description

#### 3Com 509 Series

Chipset type: 3Com 509 Series ISA 10Base

Compatibility:

- 3Com EtherLink III

#### 3Com FastEtherLink

Chipset type: 3Com 3c590/3c900 (3Com FastEtherLink and FastEtherLink XL) PCI 10/100Base

Compatibility:

- 3c590 Vortex 10BaseT
- 3c592 chip
- 3c595 Vortex 100BaseTX
- 3c595 Vortex 100BaseT4
- 3c595 Vortex 100Base-MII
- 3c597 chip
- 3Com Vortex
- 3c900 Boomerang 10BaseT
- 3c900 Boomerang 10Mbit/s Combo
- 3c900 Cyclone 10Mbit/s Combo
- 3c900B-FL Cyclone 10Base-FL

- 3c905 Boomerang 100BaseTX
- 3c905 Boomerang 100BaseT4
- 3c905B Cyclone 100BaseTX
- 3c905B Cyclone 10/100/BNC
- 3c905B-FX Cyclone 100BaseFX
- 3c905C Tornado
- 3c980 Cyclone
- 3cSOHO100-TX Hurricane
- 3CSOHO100B-TX
- 3c555 Laptop Hurricane
- 3c575 Boomerang CardBus
- 3CCFE575 Cyclone CardBus
- 3CCFE656 Cyclone CardBus
- 3c575 series CardBus
- 3Com Boomerang

## **ADMtek Pegasus**

Chipset type: ADMtek Pegasus/Pegasus II USB 10/100BaseT

Compatibility:

- Planet 10/100Base-TX USB Ethernet Adapter UE-9500
- Linksys Instant EtherFast 10/100 USB Network Adapter USB100TX

## **AMD PCnet**

Chipset type: AMD PCnet/PCnet II ISA/PCI 10BaseT

Compatibility:

- AMD PCnet-ISA
- AMD PCnet-ISA II
- AMD PCnet-PCI II
- AMD 79C960 based cards

## **AMD PCnet32**

Chipset type: AMD PCnet32 PCI 10BaseT and 10/100BaseT

Compatibility:

- AMD PCnet-PCI
- AMD PCnet-32
- AMD PCnet-Fast

### **Broadcom Tigon3**

Chipset type: Broadcom Tigon3 PCI 10/100/1000BaseT

Compatibility:

- Broadcom Tigon3 570x
- Broadcom Tigon3 5782
- Broadcom Tigon3 5788
- Broadcom Tigon3 5901
- Broadcom Tigon3 5901-2
- SysKonnnect SK-9Dxx Gigabit Ethernet
- SysKonnnect SK-9Mxx Gigabit Ethernet
- Altima AC100x
- Altima AC9100

### **Davicom DM9102**

Chipset type: Davicom DM9102 PCI 10/100Base

Compatibility:

- Davicom DM9102
- Davicom DM9102A
- Davicom DM9102A+DM9801
- Davicom DM9102A+DM9802

### **DEC 21x4x 'Tulip'**

Chipset type: DEC 21x4x "Tulip" PCI 10/100Base

Compatibility:

- Digital DC21040 Tulip
- Digital DC21041 Tulip
- Digital DS21140 Tulip
- 21140A chip
- 21142 chip

- Digital DS21143 Tulip
- D-Link DFE 570TX 4-port
- Lite-On 82c168 PNIC
- Macronix 98713 PMAC
- Macronix 98715 PMAC
- Macronix 98725 PMAC
- ASIX AX88140
- Lite-On LC82C115 PNIC-II
- ADMtek AN981 Comet
- Compex RL100-TX
- Intel 21145 Tulip
- IMC QuikNic FX
- Conexant LANfinity

### Intel EtherExpressPro

Chipset type: Intel i82557 "Speedo3" (Intel EtherExpressPro) PCI 10/100Base

Compatibility:

- Intel i82557/i82558/i82559ER/i82801BA-7 EtherExpressPro PCI cards

### Intel PRO/1000

Chipset type: Intel i8254x (Intel PRO/1000) PCI 10/100/1000Base

Compatibility:

- Intel PRO/1000 Gigabit Server Adapter (i82542, Board IDs: 700262-xxx, 717037-xxx)
- Intel PRO/1000 F Server Adapter (i82543, Board IDs: 738640-xxx, A38888-xxx)
- Intel PRO/1000 T Server Adapter (i82543, Board IDs: A19845-xxx, A33948-xxx)
- Intel PRO/1000 XT Server Adapter (i82544, Board IDs: A51580-xxx)
- Intel PRO/1000 XF Server Adapter (i82544, Board IDs: A50484-xxx)
- Intel PRO/1000 T Desktop Adapter (i82544, Board IDs: A62947-xxx)
- Intel PRO/1000 MT Desktop Adapter (i82540, Board IDs: A78408-xxx, C91016-xxx)
- Intel PRO/1000 MT Server Adapter (i82545, Board IDs: A92165-xxx, C31527-xxx)
- Intel PRO/1000 MT Dual Port Server Adapter (i82546, Board IDs: A92111-xxx, C29887-xxx)
- Intel PRO/1000 MT Quad Port Server Adapter (i82546, Board IDs: C32199-xxx)
- Intel PRO/1000 MF Server Adapter (i82545, Board IDs: A91622-xxx, C33915-xxx)

- Intel PRO/1000 MF Server Adapter (LX) (i82545, Board IDs: A91624-xxx, C33916-xxx)
- Intel PRO/1000 MF Dual Port Server Adapter (i82546, Board IDs: A91620-xxx, C30848-xxx)
- Intel PRO/1000 GT Desktop Adapter (i82541PI)

## Marvell Yukon

Chipset type: Marvell Yukon 88E80xx PCI 10/100/1000Base

Compatibility:

- 3Com 3C940 Gigabit LOM Ethernet Adapter
- 3Com 3C941 Gigabit LOM Ethernet Adapter
- Allied Telesyn AT-2970LX Gigabit Ethernet Adapter
- Allied Telesyn AT-2970LX/2SC Gigabit Ethernet Adapter
- Allied Telesyn AT-2970SX Gigabit Ethernet Adapter
- Allied Telesyn AT-2970SX/2SC Gigabit Ethernet Adapter
- Allied Telesyn AT-2970TX Gigabit Ethernet Adapter
- Allied Telesyn AT-2970TX/2TX Gigabit Ethernet Adapter
- Allied Telesyn AT-2971SX Gigabit Ethernet Adapter
- Allied Telesyn AT-2971T Gigabit Ethernet Adapter
- DGE-530T Gigabit Ethernet Adapter
- EG1032 v2 Instant Gigabit Network Adapter
- EG1064 v2 Instant Gigabit Network Adapter
- Marvell 88E8001 Gigabit LOM Ethernet Adapter
- Marvell RDK-80xx Adapter
- Marvell Yukon Gigabit Ethernet 10/100/1000Base-T Adapter
- N-Way PCI-Bus Giga-Card 1000/100/10Mbps(L)
- SK-9521 10/100/1000Base-T Adapter
- SK-98xx Gigabit Ethernet Server Adapter
- SMC EZ Card 1000
- Marvell Yukon 88E8010 based
- Marvell Yukon 88E8003 based
- Marvell Yukon 88E8001 based

## National Semiconductor DP83810

Chipset type: National Semiconductor DP83810 PCI 10/100BaseT

Compatibility:

- RouterBoard 200 built-in Ethernet
- RouterBoard 24 4-port Ethernet
- NS DP8381x-based cards

## **National Semiconductor DP83820**

Chipset type: National Semiconductor DP83820 PCI 10/100/1000BaseT

Compatibility:

- Planet ENW-9601T
- NS DP8382x-based cards

## **NE2000 ISA**

Chipset type: NE2000 ISA 10Base

Compatibility:

- various ISA cards

## **NE2000 PCI**

Chipset type: NE2000 PCI 10Base

Compatibility:

- RealTek RTL-8029
- Winbond 89C940 and 89C940F
- Compex RL2000
- KTI ET32P2
- NetVn NV5000SC
- Va 86C926
- SureCom NE34
- Holtek HT80232
- Holtek HT80229
- IMC EtherNic/PCI FO

## **NS8390**

Chipset type: NS8390-compatible PCMCIA/CardBus 10Base

Compatibility:

- D-Link DE-660 Ethernet
- NE-2000 Compatible PCMCIA Ethernet
- NS8390-based PCMCIA cards

## RealTek RTL8129

Chipset type: RealTek RTL8129 PCI 10/100Base

Compatibility:

- RealTek RTL8129 Fast Ethernet
- RealTek RTL8139 Fast Ethernet
- RTL8139A/B/C/D chip
- RTL8130 chip
- RTL8100B chip
- SMC1211TX EZCard 10/100 (RealTek RTL8139)
- Accton MPX5030 (RealTek RTL8139)
- D-Link DFE 538TX

## RealTek RTL8169

Chipset type: RealTek RTL8169 PCI 10/100/1000Base

Compatibility:

- RealTek RTL8169 Gigabit Ethernet (**not** recommended: may lock up the router)

## Sundance ST201 'Alta'

Chipset type: Sundance ST201 "Alta" PCI 10/100Base

Compatibility:

- D-Link DFE-550TX Fast Ethernet Adapter
- D-Link DFE-550FX 100Mbps Fiber-optics Adapter
- D-Link DFE-580TX 4-port Server Adapter (**not** recommended: may lock up the system)
- D-Link DFE-530TXS Fast Ethernet Adapter
- D-Link DL10050-based FAST Ethernet Adapter
- Sundance ST201 "Alta" chip
- Kendin KS8723 chip

## TI ThunderLAN



Chipset type: TI ThunderLAN PCI 10/100Base

Compatibility:

- Compaq Netelligent 10 T
- Compaq Netelligent 10 T/2
- Compaq Netelligent 10/100 TX
- Compaq NetFlex-3/P
- Olicom OC-2183
- Olicom OC-2185
- Olicom OC-2325
- Olicom OC-2326

### **VIA vt612x 'Velocity'**

Chipset type: VIA vt612x "Velocity" PCI 10/100/1000Base

Compatibility:

- VIA VT6120
- VIA VT6121
- VIA VT6122

### **VIA vt86c100 'Rhine'**

Chipset type: VIA vt86c100 "Rhine" PCI 10/100Base

Compatibility:

- VIA Rhine (vt3043)
- VIA Rhine II (vt3065 AKA vt86c100)
- VIA VT86C100A Rhine
- VIA VT6102 Rhine-II
- VIA VT6105 Rhine-III
- VIA VT6105M Rhine-III
- RouterBOARD 44 4-port Fast Ethernet card
- D-Link DFE 530TX

### **Winbond w89c840**

Chipset type: Winbond w89c840 PCI 10/100Base

Compatibility:

- Winbond W89c840
- Compex RL100-ATX

## Notes

For ISA cards load the driver by specifying the I/O base address. IRQ is not required.

## Wireless

Packages required: *wireless*

## Description

### Atheros

Chipset type: Atheros AR5001X PCI/CardBUS 11/54Mbit/s IEEE802.11a/b/g (with wireless AP function)

Compatibility:

- Intel 5000 series
- Dlink DWL-A520
- Dlink DWL-G650
- Ubiquiti SR5, SR2, SR9 series
- Atheros AR5000 chipset series based IEEE802.11a (AR5210 MAC plus AR5110 PHY chips) cards
- Atheros AR5001A chipset series based IEEE802.11a (AR5211 MAC plus AR5111 PHY chips) cards
- Atheros AR5001X chipset series based IEEE802.11a (AR5211 MAC plus AR5111 PHY chips), IEEE802.11b/g (AR5211 MAC plus AR2111 PHY chips), IEEE802.11a/b/g (AR5211 MAC plus AR5111 and 2111 PHY chips) cards
- Atheros AR5001X+ chipset series based IEEE802.11a (AR5212 MAC plus AR5111 PHY chips), IEEE802.11b/g (AR5212 MAC plus AR2111 PHY chips), IEEE802.11a/b/g (AR5212 MAC plus AR5111 and 2111 PHY chips) cards
- Atheros AR5002X+ chipset series based IEEE802.11b/g (AR5212 MAC plus AR2112 PHY chips), IEEE802.11a/b/g (AR5212 MAC plus AR5112 PHY chips) cards
- Atheros AR5004X+ chipset series based IEEE802.11b/g (AR5213 MAC plus AR2112 PHY chips), IEEE802.11a/b/g (AR5213 MAC plus AR5112 PHY chips) cards
- Atheros AR5006X chipset series based IEEE802.11a/b/g (AR5413/AR5414 single-chip devices) cards
- Senao NMP-8602 Series cards

### Cisco/Aironet

Chipset type: Cisco/Aironet ISA/PCI/PCMCIA 11Mbit/s IEEE802.11b (wireless station only)

Compatibility:

- Aironet ISA/PCI/PC4800 2.4GHz DS 11Mbit/s Wireless LAN Adapters (100mW)
- Aironet ISA/PCI/PC4500 2.4GHz DS 2Mbit/s Wireless LAN Adapters (100mW)
- CISCO AIR-PCI340 2.4GHz DS 11Mbit/s Wireless LAN Adapters (30mW)
- CISCO AIR-PCI/PC350/352 2.4GHz DS 11Mbit/s Wireless LAN Adapters (100mW)

## Intersil Prism II

Chipset type: Intersil Prism II PCI/CardBUS 11Mbit/s IEEE802.11b (with wireless AP feature)

Compatibility:

- Intersil PRISM2 Reference Design 11Mbit/s IEEE802.11b WLAN Card
- GemTek WL-211 Wireless LAN PC Card
- Compaq iPaq HNW-100 11Mbit/s 802.11b WLAN Card
- Samsung SWL2000-N 11Mbit/s 802.11b WLAN Card
- Z-Com XI300 11Mbit/s 802.11b WLAN Card
- ZoomAir 4100 11Mbit/s 802.11b WLAN Card
- Linksys WPC11 11Mbit/s 802.11b WLAN Card
- Addtron AWP-100 11Mbit/s 802.11b WLAN Card
- D-Link DWL-650 11Mbit/s 802.11b WLAN Card
- SMC 2632W 11Mbit/s 802.11b WLAN Card
- BroMax Freeport 11Mbit/s 802.11b WLAN Card
- Intersil PRISM2 Reference Design 11Mbit/s WLAN Card
- Bromax OEM 11Mbit/s 802.11b WLAN Card (Prism 2.5)
- corega K.K. Wireless LAN PCC-11
- corega K.K. Wireless LAN PCCA-11
- CONTEC FLEXSCAN/FX-DDS110-PCC
- PLANEX GeoWave/GW-NS110
- Ambicom WL1100 11Mbit/s 802.11b WLAN Card
- LeArtery SYNCBYAIR 11Mbit/s 802.11b WLAN Card
- Intermec MobileLAN 11Mbit/s 802.11b WLAN Card
- NETGEAR MA401 11Mbit/s 802.11 WLAN Card
- Intersil PRISM Freedom 11Mbit/s 802.11 WLAN Card
- OTC Wireless AirEZY 2411-PCC 11Mbit/s 802.11 WLAN Card
- Z-Com XI-325HP PCMCIA 200mW Card
- Z-Com XI-626 Wireless PCI Card

## Notes

If planned to use WEP with Prism cards see link for more information: [Wireless Security](#)

Prism cards set in client mode will not connect to Access Points (AP) that work with enabled hide-ssid feature

## WaveLAN/ORiNOCO

Chipset type: Lucent/Agere/Proxim WaveLAN/ORiNOCO ISA/PCMCIA 11Mbit/s IEEE802.11b (wireless station only)

Compatibility:

- WaveLAN Bronze/Gold/Silver ISA/PCMCIA

## Aironet Arlan

Packages required: *arlan*

### Description

This is driver for legacy Aironet Arlan cards, not for newer Cisco/Aironet cards.

Chipset type: Aironet Arlan IC2200 ISA 2Mbit/s 2.4GHz

Compatibility:

- Aironet Arlan 655

## RadioLAN

Packages required: *radiolan*

### Description

This is driver for legacy RadioLAN cards.

Chipset type: RadioLAN ISA/PCMCIA 10Mbit/s 5.8GHz

Compatibility:

- RadioLAN ISA card (Model 101)
- RadioLAN PCMCIA card

## Synchronous Serial

Packages required: *synchronous*

### Description

- FarSync PCI V.35/X.21 (8.448 Mbit/s)
- LMC/SBEI wanPCI-1T1E1 PCI T1/E1 (also known as DS1 or LMC1200P, 1.544 Mbit/s or 2.048 Mbit/s)
- LMC/SBEI wanPCI-1T3 PCI T3 (also known as DS3, 44.736Mbit/s)
- Sangoma S5141 (dual-port) and S5142 (quad-port) PCI RS232/V.35/X.21 (4Mbit/s - primary port and 512Kbit/s - secondary ones)

## Asynchronous Serial

Packages required: *system*

### Description

- Standard Communication Ports Com1 and Com2
- Moxa Smartio C104H/PCI, CP-114, CT-114, CP-132, C168H, CP-168H, and CP-168U PCI 2/4/8 port up to 4 cards (up to 32 ports)
- Cyclades Cyclom-Y and Cyclades-Z Series PCI cards up to 64 ports per card, up to 4 cards (up to 256 ports)
- TCL DataBooster 4 or 8 PCI 4/8 port cards
- Sangoma S514/56 PCI 56 or 64Kbit/s DDS DSU with secondary 128Kbit/s RS232 port (**Note:** this card is not for modem pools or serial terminals)

## ISDN

Packages required: *isdn*

### Description

PCI ISDN cards:

- Eicon.Diehl Diva PCI
- Sedlbauer Speed Card PCI
- ELSA Quickstep 1000PCI
- Traverse Technologie NETjet PCI S0 card
- Teles PCI
- Dr. Neuhaus Niccy PCI
- AVM Fritz PCI
- Gazel PCI ISDN cards
- HFC-2BS0 based PCI cards (TeleInt SA1)
- Winbond W6692 based PCI cards

## VoIP

Packages required: *telephony*

### Description

H.323 Protocol VoIP Analog Gateways

- QuickNet LineJack ISA
- QuickNet PhoneJack ISA
- Voicetronix V4PCI - 4 analog telephone lines cards
- Zaptel X.100P IP telephony card (1 analog line)

## xDSL

Packages required: *synchronous*

### Description

Xpeed 300 SDSL cards (up to 6.7km twisted pair wire connection, max 2.3Mbit/s)

## HomePNA

Packages required: *system*

### Description

Linksys HomeLink PhoneLine Network Card (up to 10Mbit/s home network over telephone line)

## LCD

Packages required: *lcd*

### Description

- Crystalfontz Intelligent Serial LCD Module 632 (16x2 characters) and 634 (20x4 characters)
- Powertip Character LCD Module PC1602 (16x2 characters), PC1604 (16x4 characters), PC2002 (20x2 characters), PC2004 (20x4 characters), PC2402 (24x2 characters) and PC2404 (24x4 characters)

## PCMCIA Adapters

Packages required: *system*

### Description

- Vadem VG-469 PCMCIA-ISA adapter (one or two PCMCIA ports)

- RICOH PCMCIA-PCI Bridge with R5C475 II or RC476 II chip (one or two PCMCIA ports)
- CISCO/Aironet PCMCIA adapter (ISA and PCI versions) for CISCO/Aironet PCMCIA cards only

## GPRS Cards

Packages required: *wireless*

### Description

- NWH 1600 GPRS Modem (Benq M32 chip)

## CDMA/EV-DO Cards

Packages required: *system*

### Description

- Audiovox PC5220 CDMA Dual Band 1XEV-DO PC Card for VerizonWireless
- Verizon Express Network PC5220 (AirPrime 5220)
- Kyocera KPC650 (Verizon Wireless)
- Novatel Wireless CDMA card
- Novatel U730 (Wireless HSDPA Modem)
- Huawei Mobile Connect Model E620 (3G)
- Novatel Merlin S720 (HSDPA)
- Option G3 PCMCIA card (Vodafone UMTS)
- Sierra Aircard 595 and other Sierra Wireless cards