

# scanModem, Xandros Desktop kernel 2.6.9-x1

**Source:** <http://linux.derkeiler.com/Newsgroups/comp.os.linux.hardware/2005-06/0266.html>

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**Date:** 06/11/05

Date: 10 Jun 2005 21:12:52 -0700

I sure hope this provides enough info.

DO use the following line as the email Subject Line, to alert cogent experts:

scanModem, Xandros Desktop kernel 2.6.9-x1

Occasionally reponses are blocked by an Internet Providers mail filters.

So do in a day also check the Archived responses at  
DISCUSS@linmodems.org

Code updated on: 2005\_June\_02

----- System information

Xandros Desktop 3.0 Deluxe

distro=xandros

on System with processor: i686

currently under kernel: 2.6.9-x1

The kernel was assembled with compiler: 3.3.4

with current System compiler GCC=3.3.4

/usr/bin/gcc -> gcc-3.3

Checking for kernel-headers needed for compiling.

A /dev/modem symbolic link is not set.

Checking for /dev/tts/ devices

total 0

crw-rw-rw- 1 root tty 4, 64 2005-06-10 22:59 0

crw-rw-rw- 1 root tty 4, 65 2005-06-10 22:59 1

crw-rw-rw- 1 root tty 4, 66 2005-06-10 22:59 2

crw-rw-rw- 1 root tty 4, 67 2005-06-10 22:59 3

crw-rw-rw- 1 root tty 4, 68 2005-06-10 22:59 4

crw-rw-rw- 1 root tty 4, 69 2005-06-10 22:59 5

crw-rw-rw- 1 root tty 4, 70 2005-06-10 22:59 6

crw-rw-rw- 1 root tty 4, 71 2005-06-10 22:59 7

lrwxrwxrwx 1 root wvoutlaw 11 2005-06-10 23:58 Winmodem0 ->

/dev/ttySL0

USB modem not detected.

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0000:00:1f.5 Multimedia audio controller: Intel Corp. 82801DB/DBL/DBM  
(ICH4/ICH4-L/ICH4-M) AC'97 Audio Controller (rev 03)

Modem candidates are at PCI\_buses: 0000:00:1f.6

Providing detail for device at 0000:00:1f.6  
with vendor-ID:device-ID

-----:-----

Class 0703: 8086:24c6 Modem: Intel Corp. 82801DB/DBL/DBM  
(ICH4/ICH4-L/ICH4-M) AC'97 Modem Controller (rev 03) (prog-if 00  
[Generic])

SubSystem 103c:3080 Hewlett-Packard Company: Unknown device 3080  
0000:00:1f.6 0703: 8086:24c6 (rev 03)

Flags: bus master, medium devsel, latency 0, IRQ 5

-----PCI\_IDs----- --CompilerVer--

Feature List: Primary Subsystem Distr KernelVer kernel default  
CPU

./scanModem test 8086:24c6 103c:3080 xandros 2.6.9-x1 3.3.4 3.3.4  
i686

The soft modem Subsystem operates under a controller  
8086:24c6 82801DB ICH4  
capable of supporting under Linux AT LEAST modem Subsystem chips from  
manufacturers:

Broadcom  
AgereSystems  
Conexant  
Intel  
Smartlink

Smartlink software in ALSA mode may support this modem  
The Subsystem PCI id does not itself identify the modem Codec.

Driver snd-intel8x0m may enable codec acquisition  
/proc/asound lacks an mc97 codec file.

Beginning check for older ac97\_codec modems.  
An older ac97\_modem codec was not detected.

----- dmesg slamr filtered -----  
slamr: module license 'Smart Link Ltd.' taints kernel.  
slamr: probe 8086:24c6 ICH4 card...  
slamr: mc97 codec is CXT30  
slamr: slamr0 is ICH4 card.  
The softmodem Codec is: CXT30  
Checking through information gathered from LinModem ARCHIVES  
Modem codec information on Subsystem 103c:3080 is not in the records.  
DisAgreement between slamr diagnostic and Archive. Using slamr

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diagnostic: CODEC=CXT30

The modem has a Conexant codec: CXT30

and there is support for the modem controller: 8086:24c6 82801DB ICH4

Some Linux Distributions include the hsfmodem driver.

Search your packages information for "hsfmodem" and "Conexant".

If not found there, download a hsfmodem package from

<http://www.linuxant.com> .

For 2.4.n kernels, If there is not an exact match your kernel version:

2.6.9-x1

then kernel-sources must be prepared as described in

Modem/DriverCompiling.txt

before the hsfmodem driver compiling can be successful.

For recent kernel-source-2.4.6 ,configuration steps are not necessary.

== Checking PCI IDs through modem chip suppliers ==

Vendors 127a and 14f1 are Conexant, inheritor of Rockwell modem technology. There are also Conexant chipsets

in some modems from vendors 158b – Allied Data Tech., 1024 – Zenith

,141a – Apache Micro and 148d Digicom Systems.

With respect to software support there are two main types, hcfpcimodem\* and hsfmodem\* .

Download drivers from <http://www.Linuxant.com/drivers/>

At <http://linmodems.technion.ac.il/resources.html#conexant> , there are scripts aiding installation:

For HSF modems.

For HCF modems.

There is additional Conexant information written to Modem/Conexant.txt

== Checking PCI IDs through modem chip suppliers ==

Vendor=8086 is Intel, Inc. producing HaM and 536ep host controller

free (HCF) modems, 537 soft modem

and AC97 and MC97 controllers managing a variety of non-Intel soft modem Subsystems.

These subSystems often have PCI\_IDs assigned by the modem assembler, rather than the chip provider.

Download available drivers through:

<http://developer.intel.com/design/modems/support/drivers.htm> with

Intel-537 types at:

[http://downloadfinder.intel.com/scripts-df/Filter\\_Results.asp?selCat=all&strOSs=39&ProductID=1230&page\\_nbr=2](http://downloadfinder.intel.com/scripts-df/Filter_Results.asp?selCat=all&strOSs=39&ProductID=1230&page_nbr=2)

Also check at: <http://linmodems.technion.ac.il/packages/Intel/537/>

for beta releases and perhaps Already compiled drivers for some Linux distributions

A very detailed installation report cogent to 537 type modems is at:

<http://linmodems.technion.ac.il/archive-fifth/msg00541.html>

Setup call id with:

Type 1 : When the phone line is not in use

at+vcid=1

Type 2 : When the phone line is already in use on a call at+pcw=0

===== PCI\_ID checking completed =====

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Analyzing information for PCMCIA device at PCI Bus 02:09.0

GREPPing for an inserted PCMCIA modem with filter: ommunication

If a PCMCIA modem is currently inserted and the sockets activated by

/etc/init.d/pcmcia start

then the PCMCIA bridge is NOT transparent.

If the modem is known to have a Lucent digital signal processing chipset,

then PCMCIA.tar.gz variant assembled by Joern Wustenfeld is necessary, rather than the standard ltmodem-8.31a10.tar.gz at

<http://ltmodem.heby.de/>

GCCversion=3.3.4

For information on modem port creation under the UDEV device file system see:

<http://linmodems.technion.ac.il/archive-fourth/msg03299.html> for Conexnant modems

<http://linmodems.technion.ac.il/archive-fifth/msg01177.html> for Lucent/Agere DSP modems

The following information blocks just query some ppp support items.

```
=====
grep -rs ppp /etc/modprobe.*
```

```
/etc/modprobe.d/aliases:alias net-pf-24 pppoe
```

```
/etc/modprobe.d/aliases:alias char-major-108 ppp_generic
```

```
/etc/modprobe.d/aliases:alias ppp-compress-18 ppp_mppe
```

```
/etc/modprobe.d/aliases:alias ppp-compress-18 ppp_mppe_mppc
```

Resident PPP support modules are properly uncompressed .

-----active COMM services are -----

eth0 Link encap:Ethernet HWaddr 00:C0:9F:66:0F:C7

This COMM mode should be closed before using the modem, or DNS services may fail.

Be sure to read the section about ppp related modules and aliases in Modem/YourModem.txt

Be sure to read the Ethernet section of Modem/YourModem.txt

DEVPPP=crw----- 1 root root 108, 0 2005-06-10 22:59 /dev/ppp

A /dev/modem symbolic link is not present

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No devfsd.conf file found, indicated absence of the devfsd daemon  
package  
for device file system (devfs) symbolic link support.

DEVFSD=

----- dmesg queries -----

Kernel command line: BOOT\_IMAGE=Xandros\_Desktop\_3.0\_Deluxe ro root=305

rw acpi=on

ACPI: PCI Interrupt Link [LNKF] (IRQs 3) \*0, disabled.

audit: initializing netlink socket (disabled)

Serial: 8250/16550 driver \$Revision: 1.90 \$ 8 ports, IRQ sharing  
disabled

xandros is not yet providing pre-compiled drivers for WinModems