

# CF GPRS-MODEM card on Intel HCCCBCTA1/Cotulla Platform,problem with serial port

*Source:* <http://linux.derkeiler.com/Mailing-Lists/Kernel/2003-09/1565.html>

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**Date:** 09/05/03

To: linux-kernel <linux-kernel@vger.kernel.org>

Date: Fri, 5 Sep 2003 13:2:1 -0800

Linux version 2.4.19-rmk7-pxa2;  
gcc version 2.95.3 20010315 (release)  
CPU: XScale-PXA250 revision 1  
Machine: Intel DBPXA250 Development Platform  
GPRS-MODEM card:AUDIOVOX RTM-8000(work properly in windows)

All information as follows:

Uncompressing Linux..... done, booting the kernel.  
Linux version 2.4.19-rmk7-pxa2 (root@bobo) (gcc version 2.95.3 20010315 (release)) #22 .Ä 9.. 4 14:18:47  
GMT-5 2003  
CPU: XScale-PXA250 revision 1  
Machine: Intel DBPXA250 Development Platform  
Ignoring unrecognised tag 0x00000000  
Memory clock: 99.53MHz (\*27)  
Run Mode clock: 99.53MHz (\*1)  
Turbo Mode clock: 199.07MHz (\*2.0, active)  
On node 0 totalpages: 16384  
zone(0): 16384 pages.  
zone(1): 0 pages.  
zone(2): 0 pages.  
Kernel command line: root=/dev/nfs ip=192.9.200.186 nfsroot=192.9.200.56://opt/pxa/pxa-nfs  
console=ttyS0,115200 mem=64M rw  
Console: colour dummy device 80x30  
Calibrating delay loop... 198.65 BogoMIPS  
Memory: 64MB = 64MB total  
Memory: 63228KB available (1198K code, 290K data, 76K init)  
Dentry cache hash table entries: 8192 (order: 4, 65536 bytes)  
Inode cache hash table entries: 4096 (order: 3, 32768 bytes)  
Mount-cache hash table entries: 1024 (order: 1, 8192 bytes)  
Buffer-cache hash table entries: 4096 (order: 2, 16384 bytes)  
Page-cache hash table entries: 16384 (order: 4, 65536 bytes)  
POSIX conformance testing by UNIFIX

## Linux–Kernel: CF GPRS–MODEM card on Intel HCCCBCTA1/Cotulla Platform,problem with serial port

```
Linux NET4.0 for Linux 2.4
Based upon Swansea University Computer Society NET3.039
Initializing RT netlink socket
SA1111 Microprocessor Companion Chip: silicon revision 1, metal revision 1
Disabling CPU frequency change support.
CPU clock: 0.000 MHz (0.000–0.000 MHz)
Starting kswapd
Console: switching to colour frame buffer device 80x30
initialize_kbd: Keyboard reset failed, no ACK
pty: 256 Unix98 ptys configured
Keyboard timed out[1]
keyboard: Timeout – AT keyboard not present?
Keyboard timed out[1]
keyboard: Timeout – AT keyboard not present?
Serial driver version 5.05c (2001–07–08) with no serial options enabled
ttyS00 at 0x0000 (irq = 15) is a PXA UART
ttyS01 at 0x0000 (irq = 14) is a PXA UART
ttyS02 at 0x0000 (irq = 13) is a PXA UART
SA1100 Real Time Clock driver v1.00
ac97_codec: AC97 Audio codec, id: 0x5053:0x4304 (Philips UCB1400)
enable_irq(163) unbalanced from c00b3ce8
smc91x.c: v1.0, mar 07 2003 by Nicolas Pitre <nico@cam.org>
eth0: SMC91C94 (rev 9) at 0xf1000c00 IRQ 162 [nowait]
eth0: Ethernet addr: 00:02:b3:92:a6:c8
PPP generic driver version 2.4.2
NET4: Linux TCP/IP 1.0 for NET4.0
IP Protocols: ICMP, UDP, TCP
IP: routing cache hash table of 512 buckets, 4Kbytes
TCP: Hash tables configured (established 4096 bind 4096)
IP–Config: Guessing netmask 255.255.255.0
IP–Config: Complete:
    device=eth0, addr=192.9.200.186, mask=255.255.255.0, gw=255.255.255.255,
    host=192.9.200.186, domain=, nis–domain=(none),
    bootserver=255.255.255.255, rootserver=192.9.200.56, rootpath=
NET4: Unix domain sockets 1.0/SMP for Linux NET4.0.
NetWinder Floating Point Emulator V0.95 (c) 1998–1999 Rebel.com
Looking up port of RPC 100003/2 on 192.9.200.56
Looking up port of RPC 100005/1 on 192.9.200.56
VFS: Mounted root (nfs filesystem).
Freeing init memory: 76K
init started: BusyBox v0.60.5 (2002.11.19–06:58+0000) multi–call binary
Please press Enter to activate this console.

# insmod pcmcia_core.o
enter cs.c--init_pcmcia_cs()
Linux Kernel Card Services 3.1.22
  options: [pm]
# insmod pxa/pxa_cs.o
Intel PXA250/210 PCMCIA (CS release 3.1.22)
# insmod ds.o
```

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```
# insmod pcmcia/serial_cs.o
enter serila_cs.c--init_serial_cs()

# cardmgr
cardmgr[37]: could not open './config.opts': No such file or directory
cardmgr[37]: watching 2 sockets
# cardmgr[38]: starting, version is 3.2.4

enter cistpl.c--pcmcia_validate_cis()<4>enter cistpl.c--read_tuple()<4>exit
cistpl.c--read_tuple(),ret=0<4>cistpl.c--pcmcia_val1cardmgr[35]: socket 1: Serial or Modem
cardmgr[35]: socket beep ok 519
<1> serial_cs.c:serial_attach()
serial_cs.c--serial_attach():before CardServices()
enter cistpl.c--read_tuple()<1> serial_cs.c:serial_event(0x000004)
serila_cs.c--serial_event():CS_EVENT_CARD_INSERTION
enter serila_cs.c--serial_config()
enter serila_cs.c--get_tuple()
serila_cs.c--get_tuple():i = CS_SUCCESS,parsetuple,i=0
enter serila_cs.c--get_tuple()
serila_cs.c--get_tuple():i != CS_SUCCESS,getfirsttuple,i=31
enter serila_cs.c--get_tuple()
serila_cs.c--get_tuple():i = CS_SUCCESS,parsetuple,i=0
enter serila_cs.c--get_tuple()
serila_cs.c--get_tuple():i = CS_SUCCESS,parsetuple,i=0
enter serila_cs.c--get_tuple()
serila_cs.c--get_tuple():i = CS_SUCCESS,parsetuple,i=0
enter serila_cs.c--get_tuple()
serila_cs.c--get_tuple():i = CS_SUCCESS,parsetuple,i=0
serial_cs.c:ntering serial_cs.c--multi_config()
enter serila_cs.c--get_tuple()
serila_cs.c--get_tuple():i = CS_SUCCESS,parsetuple,i=0
enter cs.c--pcmcia_request_io()
cs.c--pcmcia_request_io():SUCESS
enter cs.c--pcmcia_request_irq()
cs.c--pcmcia_request_irq():SUCESS
cs.c--CardServices(),RequestConfiguration
enter cs.c--pcmcia_request_configuratio()
bobo_vcc:33 50
bobo_vpp:0 0
EXIT cs.c--pcmcia_request_configuratio()
cs.c--setup_serial():irq=154 port=f70003f8
serial.c:entering register_serial()
ttyS03 at port 0xf70003f8 (irq = 154) is a 16C950/954
serial.c:exit register_serial()
cs.c--setup_serial():SUCESS
cs.c--setup_serial():irq=154 port=f7000400
serial.c:entering register_serial()
ttyS04 at port 0xf7000400 (irq = 154) is a 16C950/954
serial.c:exit register_serial()
cs.c--setup_serial():SUCESS
exit serial_cs.c--multi_config()
exit serila_cs.c--serial_config()
cardmgr[35]: executing: './serial start ttyS3'
```

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```
cardmgr[35]: + expr: No such file or directory
cardmgr[35]: executing: './serial start ttyS4'
cardmgr[35]: + expr: No such file or directory
```

# cardctl ident

Socket 0:

no product info available

Socket 1:

product info: "GPRS Modem", "", "", ""

manfid: 0x0279, 0x950b

function: 2 (serial)

# cardctl config

Socket 0:

not configured

Socket 1:

Vcc 5.0V Vpp1 0.0V Vpp2 0.0V

interface type is "memory and I/O"

irq 154 [exclusive] [level]

speaker output is enabled

function 0:

config base 0x00f8

option 0x41 status 0x08 pin 0x00 copy 0x00

io 0xf70003f8–0xf7000407 [8bit]

# cardctl status

Socket 0:

no card

Socket 1:

3.3V 16–bit PC Card

function 0: [ready], [bat dead], [bat low]

# cat /var/run/stab

Socket 0: empty

Socket 1: Serial or Modem

1 serial serial\_cs 0 ttyS3 4 67

1 serial serial\_cs 1 ttyS4 4 68

# cat /proc/devices

Character devices:

1 mem

2 pty

3 ttyp

4 ttyS

5 cua

7 vcs

10 misc

14 sound

29 fb

108 ppp

128 ptm

136 pts  
162 raw  
254 pcmcia

Block devices:

```
# cat /proc/interrupts
 1: 4004 Lubbock FPGA
 3: 0 GPIO 2–80
 7: 64 AC97
10: 0 LCD
15: 224 serial
18: 0 DMA
19: 9905 timer
20: 0 rtc timer
23: 0 rtc 1Hz
24: 0 rtc Alrm
126: 0 keyboard
155: 0 Lubbock PCMCIA (0) CD
156: 2 Lubbock CF (1) CD
157: 0 Lubbock PCMCIA (0) BVD1
158: 2 Lubbock CF (1) BVD1
160: 4 SA1111
162: 3999 eth0
163: 1 UCB1x00
```

Err: 0

```
# cat /proc/ioports
f1000c00–f1000c3f : eth0
f70003f8–f70003ff : serial(auto)
f7000400–f7000407 : serial(auto)
# cat /proc/iomem
a0000000–a3ffffff : System RAM
 a001b000–a0146adf : Kernel code
 a0146ae0–a018f3cf : Kernel data
f4000000–f4002000 : SA1111
 f4000a00–f4000bff : keyboard
 f4001600–f40017ff : irq
```

```
# cat /dev/ttyS3
```

Division by zero in kernel.

Function entered at [c0022b88] from [c012d500]

Function entered at [c00a920c] from [c00a8e50]

Function entered at [c00a87a8] from [c00ab87c]

Function entered at [c00ab760] from [c00960f8]

r8 = C3D6EF60 r7 = C02462E0 r6 = C03A4720 r5 = 00000000

r4 = 00000000

Function entered at [c0095ea8] from [c004c850]

Function entered at [c004c7fc] from [c004b4ec]

r6 = 00000000 r5 = C3D6B860 r4 = C03A4720

Function entered at [c004b3e4] from [c004b3e0]

r8 = C001D624 r7 = C02E4000 r6 = 000001B6 r5 = 00000000

r4 = 00000000

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```
Function entered at [<c004b394>] from [<c004b734>]
r4 = 00000003
Function entered at [<c004b6f0>] from [<c001d480>]
r7 = 00000005 r6 = 000001B6 r5 = 0004DE10 r4 = 00000008
Division by zero in kernel.
Function entered at [<c0022b88>] from [<c012d500>]
Function entered at [<c00a920c>] from [<c00a8e50>]
Function entered at [<c00a87a8>] from [<c00ab87c>]
Function entered at [<c00ab760>] from [<c00960f8>]
r8 = C3D6EF60 r7 = C02462E0 r6 = C03A4720 r5 = 00000000
r4 = 00000000
Function entered at [<c0095ea8>] from [<c004c850>]
Function entered at [<c004c7fc>] from [<c004b4ec>]
r6 = 00000000 r5 = C3D6B860 r4 = C03A4720
Function entered at [<c004b3e4>] from [<c004b3e0>]
r8 = C001D624 r7 = C02E4000 r6 = 000001B6 r5 = 00000000
r4 = 00000000
Function entered at [<c004b394>] from [<c004b734>]
r4 = 00000003
Function entered at [<c004b6f0>] from [<c001d480>]
r7 = 00000005 r6 = 000001B6 r5 = 0004DE10 r4 = 00000008
```

I want to use this CF-modem card,what's wrong with the driver and ttyS3?what can I do to fix this?

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