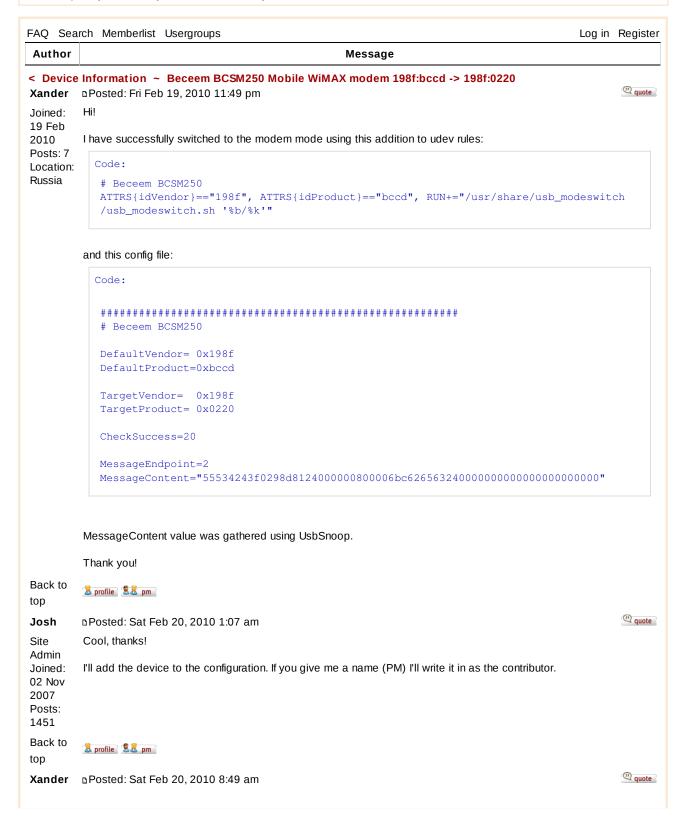


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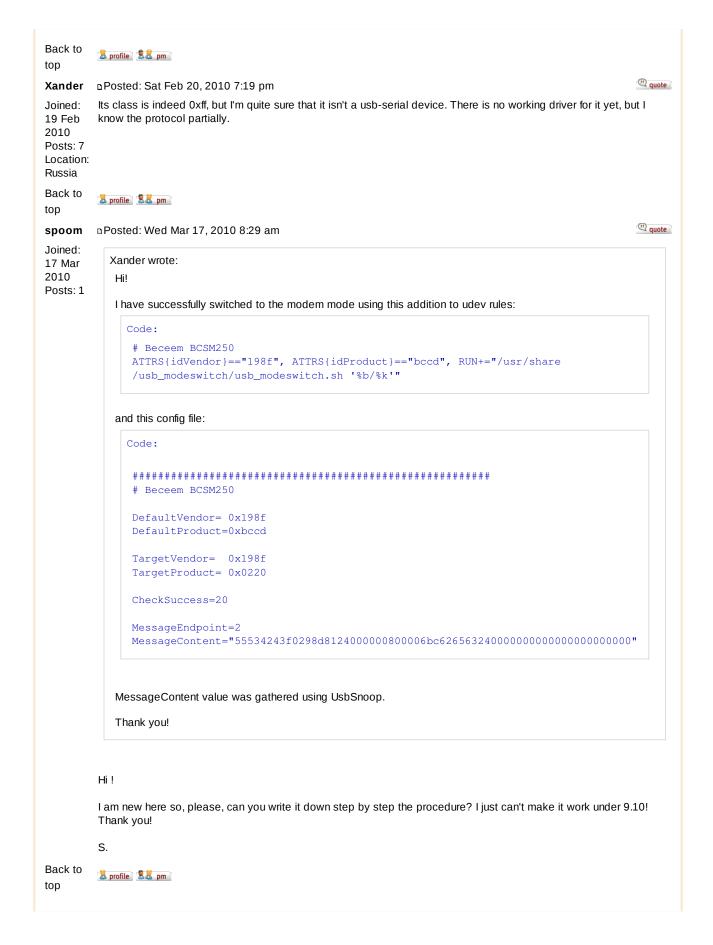
Sent it. Joined: 19 Feb BTW, I noticed that after the switch an 'option' driver is binded to the device. And it seems that usb modeswitch did 2010 it. However I'm quite sure that it should not be handled by an 'option' driver. Can I stop this somehow? Posts: 7 Location: Russia Back to 💄 profile 🙎 👢 pm top (Q) quote □Posted: Sat Feb 20, 2010 4:22 pm Josh If it provides serial interfaces, then the "option" is the way to go. It's and optimized driver for high-speed serial Site devices. Admin Joined: 02 Nov The generic serial USB driver is not recommended. 2007 Posts: If there was a special driver for your device class, it would have been bound automatically. If the interfaces have a

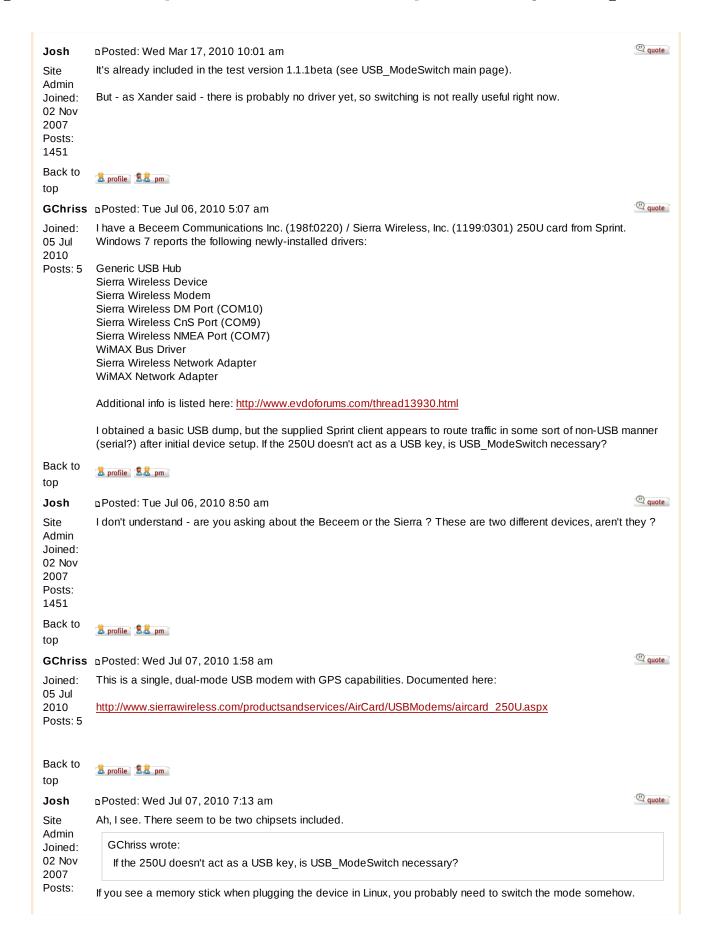
You can check with a "Isusb -v -d 198f:0220". Look for "InterfaceClass".

class of "255", this means vendor-specific and they are most likely serial ports.

1451

To disable the driver loading, comment out line 319 in /lib/udev/usb_modeswitch (the "echo" command). I will add a proper switch in the next version.





```
1451
          For a definitive answer please post the output of "Isusb -v -d <initial-vendor-id>:<initial-product-id>" (run as
          superuser).
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GChriss Posted: Wed Jul 07, 2010 3:05 pm
          Both 198f:0220 and 1199:0301 register simultanesouly upon plugin, but neither looks like USB mass storage.
          Any ideas on how to connect to the internet with this device, or have Linux drivers simply not been developed?
05 Jul
2010
Posts: 5
          Isusb -v -d 1199:0301
            Code:
             Bus 003 Device 057: ID 1199:0301 Sierra Wireless, Inc.
             Device Descriptor:
              bLength
                                          18
               bDescriptorType 1
               bcdUSB 1.10
bDeviceClass 0 (Defined at Interface level)
bDeviceSubClass 0
              bDeviceSubClass
bDeviceProtocol 0
bMaxPacketSize0 64
idVendor 0x1199 Sierra Wireless, Inc.
0x0301
0.03
              pcdDevice 0.03
iManufacturer 1 Sierra Wireless, Incorporated
iProduct 2 Sierra Wireless Device
iSerial 4 Mary 600000
               bNumConfigurations 1
               Configuration Descriptor:
                 bLength
                 bDescriptorType
                 wiotalLength
bNumInterfaces
                 bConfigurationValue 1
                 iConfiguration
                                            0
                   (Bus Powered)
                 bmAttributes
                   Remote Wakeup
                 MaxPower
                                          500mA
                 Interface Descriptor:
                   bLength
                   bDescriptorType
bInterfaceNumber
bAlternateSetting
                                                4
                                                0
                                               9
                   bNumEndpoints
                   bNumEndpoints 9
bInterfaceClass 255 Vendor Specific Class
                   bInterfaceSubClass 255 Vendor Specific Subclass bInterfaceProtocol 255 Vendor Specific Protocol
                                               3 Data Interface
                    iInterface
                    Endpoint Descriptor:
                      bLength
                      bDescriptorType
                      bEndpointAddress 0x81 EP 1 IN
                      bmAttributes
                        Transfer Type
                                                     Interrupt
                        Synch Type
                                                      None
                        Usage Type
                                                      Data
```

wMaxPacketSize		1x 16 bytes	
bInterval	128		
Endpoint Descriptor: bLength	7		
bDescriptorType	5		
		EP 2 IN	
bmAttributes	2		
Transfer Type		Bulk	
Synch Type		None	
Usage Type		Data	
wMaxPacketSize	0x0040	1x 64 bytes	
bInterval	0		
<pre>Endpoint Descriptor:</pre>			
bLength	7		
bDescriptorType	5		
bEndpointAddress		EP 2 OUT	
bmAttributes	2	D 31	
Transfer Type		Bulk None	
Synch Type			
Usage Type wMaxPacketSize	0x0040	Data 1x 64 bytes	
bInterval	040040	IX 04 Dytes	
Endpoint Descriptor:	· ·		
bLength	7		
bDescriptorType	5		
bEndpointAddress	0x84	EP 4 IN	
bmAttributes	2		
Transfer Type		Bulk	
Synch Type		None	
Usage Type		Data	
wMaxPacketSize	0x0040	1x 64 bytes	
bInterval	0		
<pre>Endpoint Descriptor:</pre>			
bLength	7		
bDescriptorType	5		
bEndpointAddress		EP 4 OUT	
bmAttributes	2	Bulk	
Transfer Type Synch Type		None	
Usage Type		Data	
wMaxPacketSize	0x0040	1x 64 bytes	
bInterval	0	111 01 27000	
Endpoint Descriptor:			
bLength	7		
bDescriptorType	5		
bEndpointAddress	0x85	EP 5 IN	
bmAttributes	2		
Transfer Type		Bulk	
Synch Type		None	
Usage Type		Data	
wMaxPacketSize	0x0040	1x 64 bytes	
bInterval	0		
<pre>Endpoint Descriptor:</pre>			
bLength	7		
bDescriptorType	5		
bEndpointAddress		EP 5 OUT	
bmAttributes	2	D 11	
Transfer Type		Bulk	
Synch Type		None	
Usage Type	0.00000	Data	
wMaxPacketSize bInterval	0x0040 0	1x 64 bytes	
utillerval			

```
Endpoint Descriptor:
         bLength
         bDescriptorType 5
bEndpointAddress 0x88 EP 8 IN
         bmAttributes 2
Transfer Type Bulk
Synch Type None
Usage Type Data
         wMaxPacketSize 0x0040 1x 64 bytes bInterval 0
       Endpoint Descriptor:
         bLength
         bDescriptorType 5
bEndpointAddress 0x08 EP 8 OUT
         bmAttributes 2
          Transfer Type
Synch Type
Usage Type
                                        Bulk
                                         Data
         wMaxPacketSize 0x0040 1x 64 bytes bInterval 0
Device Status:
                     0x0000
  (Bus Powered)
```

Isusb -v -d 198f:0220

```
Code:
Bus 003 Device 058: ID 198f:0220 Beceem Communications Inc.
  bLength 18
bDescriptorType 1
bcdUSB 2.00
bDeviceClass 255 Vendor Specific Class
bDeviceSubClass 255 Vendor Specific Subclass
bDeviceProtocol 255 Vendor Specific Protocol
bMaxPacketSize0 64
idVendor 0x198f Beceem Communications Inc.
idProduct 0x0220
bcdDevice 0.01
Device Descriptor:
  idVendor
idProduct 0x0220
bcdDevice 0.01
iManufacturer 1
iProduct 2
'Comial 3
                               1 Beceem Communications Inc.
                                    2 Mobile WiMax SS
   3 MSB220 bNumConfigurations 1 Configuration 5
   Configuration Descriptor:
      bLength
      bDescriptorType
      wTotalLength 111
bNumInterfaces 1
      bConfigurationValue
      iConfiguration
                                0xa0
      bmAttributes
        (Bus Powered)
        Remote Wakeup
     MaxPower 500mA
      Interface Descriptor:
        bLength
         bDescriptorType 4
```

```
bInterfaceNumber
bAlternateSetting 0
bNumEndpoints 6
bInterfaceClass 255 Vendor Specific Class
bInterfaceSubClass 255 Vendor Specific Subclass
bInterfaceProtocol 255 Vendor Specific Protocol
Endpoint Descriptor:

bLength 7
bDescriptorType 5
bEndpointAddress 0x81 EP 1 IN
  bmAttributes 2
Transfer Type Bulk
Synch Type None
Usage Type Data
  wMaxPacketSize 0x0040 1x 64 bytes
   bInterval
Endpoint Descriptor:
   bLength
   bDescriptorType
  bEndpointAddress 0x02 EP 2 OUT
bmAttributes 2
Transfer Type Bulk
Synch Type None
Usage Type Data
  wMaxPacketSize 0x0040 1x 64 bytes bInterval 1
Endpoint Descriptor:
  bLength 7
bDescriptorType 5
  bEndpointAddress 0x83 EP 3 IN
  bmAttributes 1
Transfer Type
                              Isochronous
    Synch Type None Usage Type Data
  wMaxPacketSize 0x0000 1x 0 bytes bInterval 1
Endpoint Descriptor:
  bLength 7
bDescriptorType 5
bEndpointAddress 0x04 EP 4 OUT
bmAttributes 1
Transfer Type Isochronous
Synch Type None
Usage Type Data
  bLength
  wMaxPacketSize 0x0000 1x 0 bytes bInterval 1
Endpoint Descriptor:
  bLength
   bDescriptorType 5
  bEndpointAddress 0x85 EP 5 IN
  bmAttributes 3
Transfer Type Interrupt
Synch Type None
Usage Type Data
   wMaxPacketSize 0x0008 1x 8 bytes
   bInterval
                          4
Endpoint Descriptor:
   bLength
                             5
   bDescriptorType
  bEndpointAddress 0x06 EP 6 OUT
   bmAttributes
                              3
```

```
Transfer Type
                                     Interrupt
      Synch Type
Usage Type
       Synch Type
                                      None
                                     Data
    wMaxPacketSize 0x0008 1x 8 bytes bInterval 4
Interface Descriptor:
 bDescriptorType 4
bInterfaceNumber 0
bAlternateSetting 1
bNumEndpoints 6
bInterfaceClass 255 Vendor Specific Class
bInterfaceSubClass 255 Vendor Specific Subclass
 bInterfaceProtocol 255 Vendor Specific Protocol
  iInterface
  Endpoint Descriptor:
    bLength
    bDescriptorType
    bEndpointAddress 0x81 EP 1 IN
    bmAttributes 2
Transfer Type
Synch Type
Usage Type
                                     Bulk
                                     None
                                     Data
    wMaxPacketSize 0x0040 1x 64 bytes bInterval 1
  Endpoint Descriptor:
    bLength 7
bDescriptorType 5
    bEndpointAddress 0x02 EP 2 OUT
    bmAttributes 2
Transfer Type E
                                Bulk
      Synch Type None Usage Type Data
    wMaxPacketSize 0x0040 1x 64 bytes bInterval 1
  Endpoint Descriptor:
   bLength 7
bDescriptorType 5
bEndpointAddress 0x83 EP 3 IN
bmAttributes 1
Transfer Type Isochronous
Synch Type None
Usage Type Data
    wMaxPacketSize 0x0040 1x 64 bytes bInterval 1
  Endpoint Descriptor:
    bLength
    bDescriptorType 5
bEndpointAddress 0x04 EP 4 OUT
    bmAttributes 1
Transfer Type Isochronous
Synch Type None
Usage Type Data
    wMaxPacketSize 0x0040 1x 64 bytes
    bInterval 1
  Endpoint Descriptor:
    bLength
    bDescriptorType
    bEndpointAddress 0x85 EP 5 IN
    bEndpointage 3
bmAttributes 3
Transfer Type
                                      Interrupt
                                     None
```

```
Usage Type
                                                     Data
                     wMaxPacketSize 0x0008 1x 8 bytes bInterval 4
                   Endpoint Descriptor:
                     bLength
                                                7
                     bDescriptorType
                     bEndpointAddress 0x06 EP 6 OUT
                                             3
                     bmAttributes
                                                Interrupt
                       Transfer Type
                       Synch Type
                                                   None
                       Usage Type
                                                     Data
                      wMaxPacketSize 0x0008 1x 8 bytes
                     bInterval
                                           4
            Device Qualifier (for other device speed):
              vice \(\sigma\)
bLength
bDescriptorType

***ISB
2.00
255
255
                                       255 Vendor Specific Class
                                     255 Vendor Specific Subclass
              bDeviceSubClass
bDeviceProtocol
bMaxPacketSize0
                                      255 Vendor Specific Protocol
                                       64
              bNumConfigurations
                                         1
            Device Status: 0x0000
               (Bus Powered)
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         □Posted: Wed Jul 07, 2010 4:24 pm
Josh
         Wow!! You plug one device in and you get two IDs?
Site
         That's something new!
Admin
Joined:
02 Nov
         Your Isusb output shows that there is no storage with drivers anywhere on the device. This means it's ready to use
2007
         (sort of) and doesn't need a mode switch.
Posts:
         Does the device come with a driver CD? If not, is Windows installing any drivers upon plug-in?
1451
         Regarding Linux drivers: there is a good chance that you get the 3/4G part of the device running. Try this:
            Code:
             # modprobe -v option
             # echo "1199 0301" > /sys/bus/usb-serial/drivers/option1/new_id
         If you get some ttyUSB ports in /dev, try to connect using ttyUSB0 (or the lowest that was generated).
         About the Beceem see the earlier post in this topic:
         http://www.draisberghof.de/usb_modeswitch/bb/viewtopic.php?p=1940#1940
         Funny "coincidence" on the Beceem web site - they are offering employment for someone able to write Linux USB
         http://www.beceem.com/careers jobs/host driver engineer sc.html
Back to
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GChriss Posted: Mon Jul 12, 2010 10:20 pm
Joined:
         There is nothing special that happens when you plug the modem into a Windows machine, unless you first ran the
05 Jul
         installation CD.
2010
Posts: 5 echo "1199 0301" did indeed register /dev/ttyUSB0 -- and no other ttyUSB* devices.
```

```
Code:
wvdialconf /etc/wvdial.conf
Editing `/etc/wvdial.conf'.
Scanning your serial ports for a modem.
ttyS0<*1>: ATQ0 V1 E1 -- failed with 2400 baud, next try: 9600 baud
ttyS0<*1>: ATQ0 V1 E1 -- failed with 9600 baud, next try: 115200 baud
ttyS0<*1>: ATQ0 V1 E1 -- and failed too at 115200, giving up.
Modem Port Scan<*1>: S1 S2 S3
WvModem<*1>: Cannot get information for serial port.
ttyUSB0<*1>: ATQ0 V1 E1 -- OK
ttyUSB0<*1>: ATQ0 V1 E1 Z -- OK
ttyUSB0<*1>: ATQ0 V1 E1 S0=0 -- OK
ttyUSB0<*1>: ATQ0 V1 E1 S0=0 &C1 -- OK
ttyUSB0<*1>: ATQ0 V1 E1 S0=0 &C1 &D2 -- OK
ttyUSB0<*1>: ATQ0 V1 E1 S0=0 &C1 &D2 +FCLASS=0 -- OK
ttyUSB0<*1>: Modem Identifier: ATI -- Manufacturer: Sierra Wireless, Inc.
ttyUSB0<*1>: Speed 9600: AT -- OK
ttyUSB0<*1>: Max speed is 9600; that should be safe.
ttyUSB0<*1>: ATQ0 V1 E1 S0=0 &C1 &D2 +FCLASS=0 -- OK
Found a modem on /dev/ttyUSB0.
Modem configuration written to /etc/wvdial.conf.
ttyUSB0<Info>: Speed 9600; init "ATQ0 V1 E1 S0=0 &C1 &D2 +FCLASS=0"
```

My /etc/wvdial.conf file:

```
Code:

[Dialer Defaults]
Init1 = ATZ
Init2 = ATQ0 V1 E1 S0=0 &C1 &D2 +FCLASS=0
Modem Type = USB Modem
Baud = 9600
New PPPD = yes
Modem = /dev/ttyUSB0
ISDN = 0
Carrier Check = no
Stupid Mode = yes
Phone = #777
Username = ' '
Password = ' '
```

Which then stalls on:

```
Code:
  wvdial
  --> WvDial: Internet dialer version 1.60
  --> Cannot get information for serial port.
  --> Initializing modem.
  --> Sending: ATZ
```

