Linux

Plug in the device, and execute *dmesg* in console. With this we can see if we have the drivers of the device installed or not.

```
$:/etc$ dmesg
generic-usb 0003:05C6:F006.0003: hiddev96,hidraw2: USB HID v1.10 Device
[SimTech, Incorporated SimTech SIM5218] on usb-0000:00:1d.1-1/input0
```

Not recognize the device, we install the necessary drivers.

Execute *lsusb*, this command show a list of devices connected to USB port:

```
$:/etc$ lsusb
      Bus 005 Device 001: ID 1d6b:0001 Linux Foundation 1.1 root hub
      Bus 004 Device 001: ID 1d6b:0001 Linux Foundation 1.1 root hub
      Bus 003 Device 008: ID 05c6:f006 Qualcomm, Inc.
      Bus 003 Device 001: ID 1d6b:0001 Linux Foundation 1.1 root hub
      Bus 002 Device 002: ID 0e6a:6001 Megawin Technology Co., Ltd
      Bus 002 Device 001: ID 1d6b:0001 Linux Foundation 1.1 root hub
      Bus 001 Device 001: ID 1d6b:0002 Linux Foundation 2.0 root hub
```

In this list, we can see:

```
the vendor:  0x05c6
the product: 0xf006
```

With this parameters we will configure the file `modules` in path `/etc/`. For configuring we have to execute:

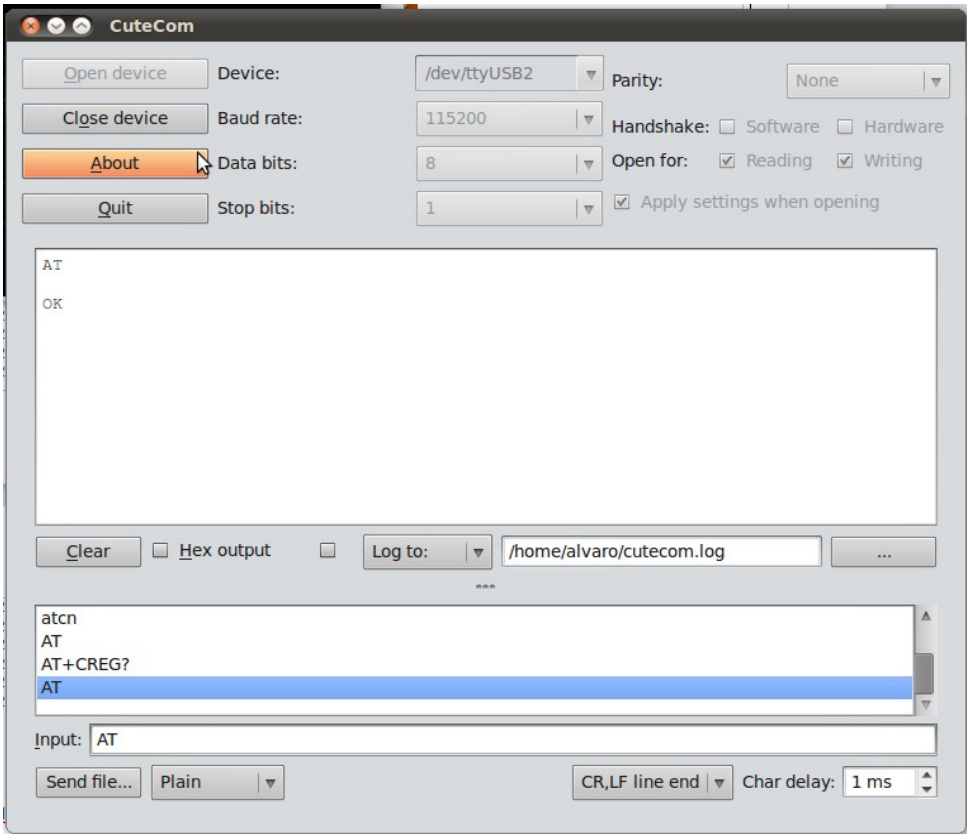
```
$:sudo gedit /etc/modules
```

```
# /etc/modules: kernel modules to load at boot time.
#
# This file contains the names of kernel modules that should be loaded
# at boot time, one per line. Lines beginning with "#" are ignored.
# Parameters can be specified after the module name.

lp

usbserial vendor=0x05c6 product=0xf006
```

Execute *dmesg:*

```
[ 2210.084352] generic ttyUSB0: generic converter now disconnected from ttyUSB0
[ 2210.084373] usbserial_generic 1-3:1.0: device disconnected
[ 2215.008545] usb 1-3: new high speed USB device using ehci_hcd and address 5
[ 2215.142637] usb 1-3: configuration #1 chosen from 1 choice
[ 2215.145180] usbserial_generic 1-3:1.0: generic converter detected
[ 2215.145280] usb 1-3: generic converter now attached to ttyUSB0
[ 2215.145361] usbserial_generic 1-3:1.1: generic converter detected
[ 2215.145436] usb 1-3: generic converter now attached to ttyUSB1
[ 2215.145515] usbserial_generic 1-3:1.2: generic converter detected
[ 2215.145591] usb 1-3: generic converter now attached to ttyUSB2
[ 2215.145678] usbserial_generic 1-3:1.3: generic converter detected
[ 2215.145758] usb 1-3: generic converter now attached to ttyUSB3
[ 2215.145853] usbserial_generic 1-3:1.4: generic converter detected
[ 2215.145933] usb 1-3: generic converter now attached to ttyUSB4
```

We can communicate with the device using AT commands, for this we use Cutecom for example:



Now the computer recognize the module SIM5218. We can use this module in different ways.

For use as a modem, we must follow these steps:

- Installing Wvdial in our Linux distribution, if not installed:

```
sudo apt-get install wvdial
```

- Configuring WvDial:

1. Once you have run wvdialconf, you need to **edit the /etc/wvdial.conf file** to reflect the phone number to dial, and your username and password.
2. Open up /etc/wvdial.conf in your favorite text editor. It should look something like this:

```
[Dialer]
Modem = /dev/ttyUSB2
Modem Type = Analog Modem
Baud = 115200
ISDN = 0
Stupid mode = 1
Idle Seconds = 0
Init2 = ATZ
Init4 =  AT+CGDCONT=1,"IP","my_APN"
Password = "my_password"
Phone = number of telephone
Username = "my_username"
Dial Command = ATD
```

3. Save your changes and exit out of the text editor.

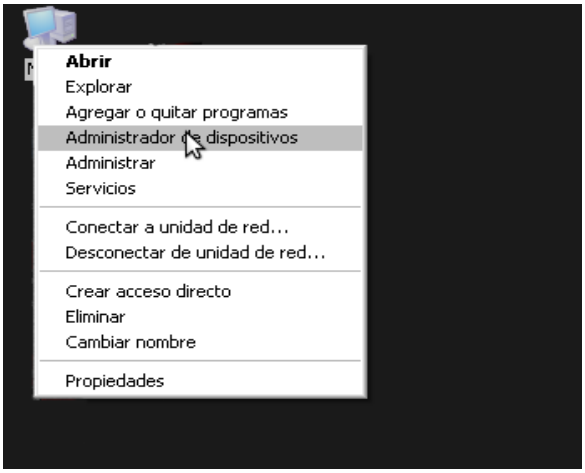
- Run wvdial

```
$:/etc$ wvdial /etc/wvdial.conf
--> WvDial: Internet dialer version 1.60
--> Warning: section [Dialer /etc/wvdial.conf] does not exist in wvdial.conf.
--> Cannot get information for serial port.
--> Initializing modem.
--> Sending: ATZ
ATZ
OK
--> Sending: ATZ
ATZ
OK
--> Sending: AT+CGDCONT=1,"IP","internet"
AT+CGDCONT=1,"IP","internet"
OK
--> Modem initialized.
--> Sending: ATD*99***1#
--> Waiting for carrier.
ATD*99***1#
CONNECT 115200
```

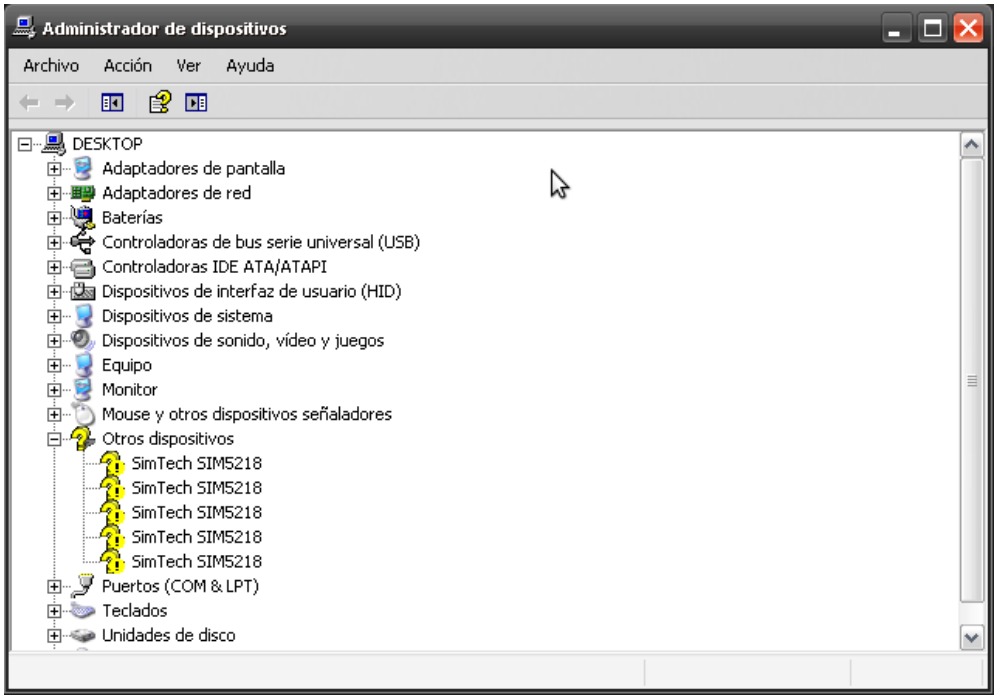
Windows XP

Plug in SIM5218 to the computer. First step is install the drivers to use the device.

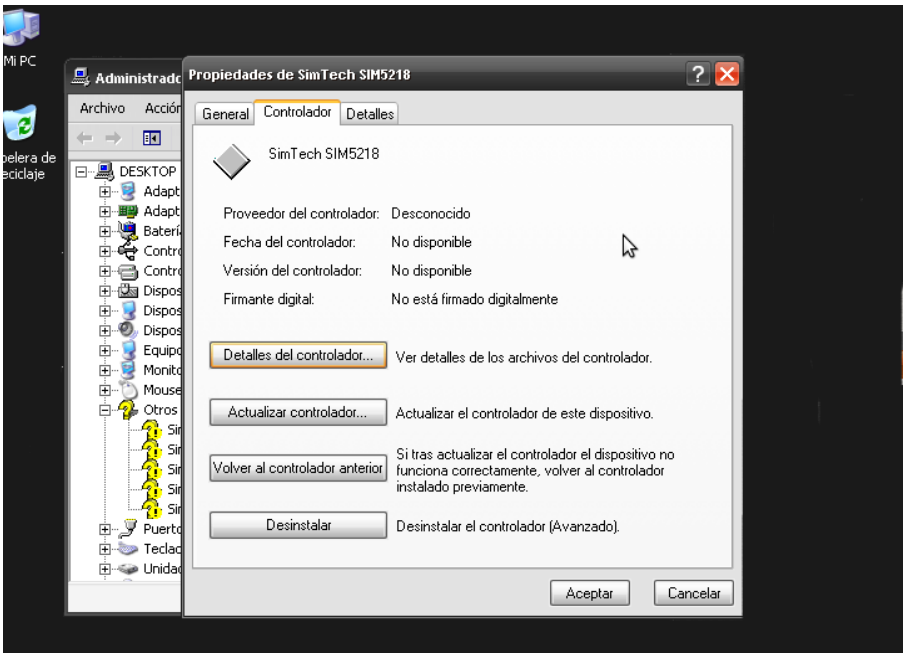
Drivers can be download to: http://www.cooking-hacks.com/skin/frontend/default/cooking/pdf/WindowsDrivers_SIM5218_2.4.00.rar



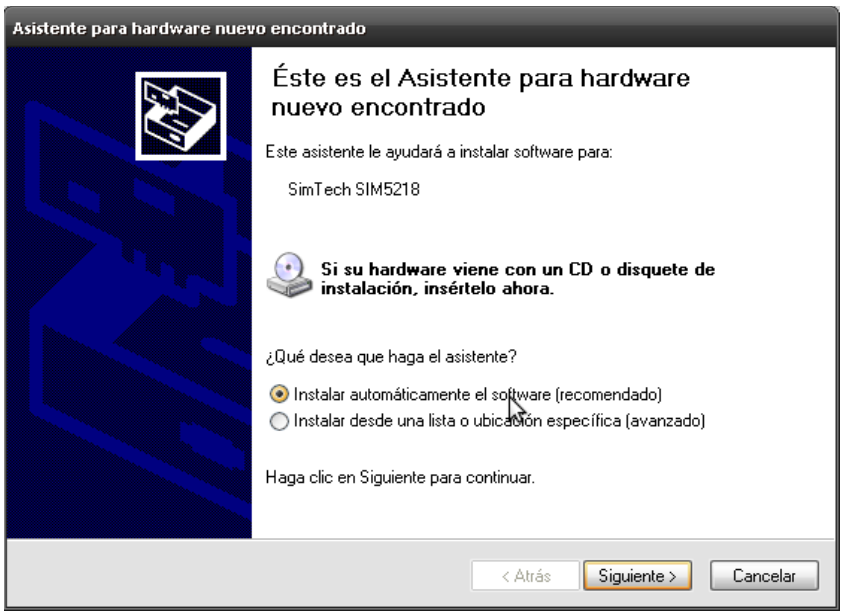
As seen in “other devices” there are five that are not assigned any driver, and therefore can not be detected by the operating system.



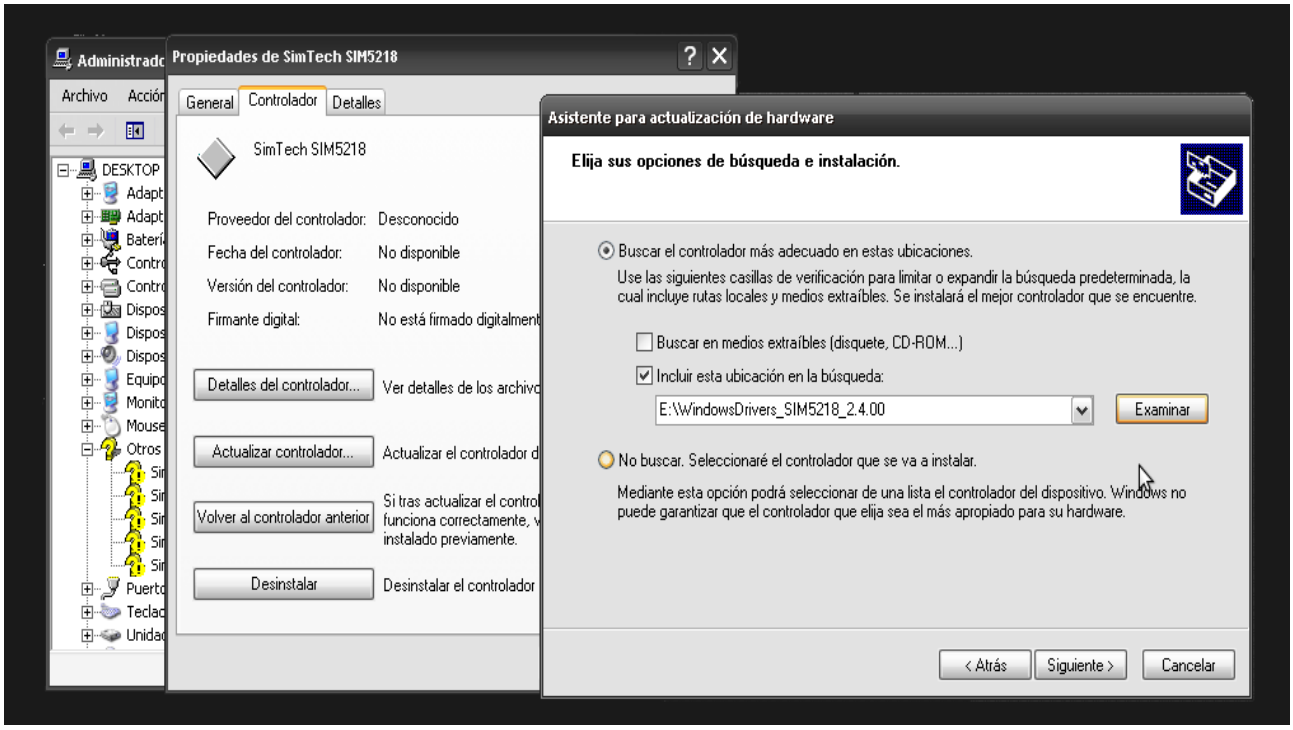
To install drivers for each device, we must select it by double click. And press the Update Driver button.

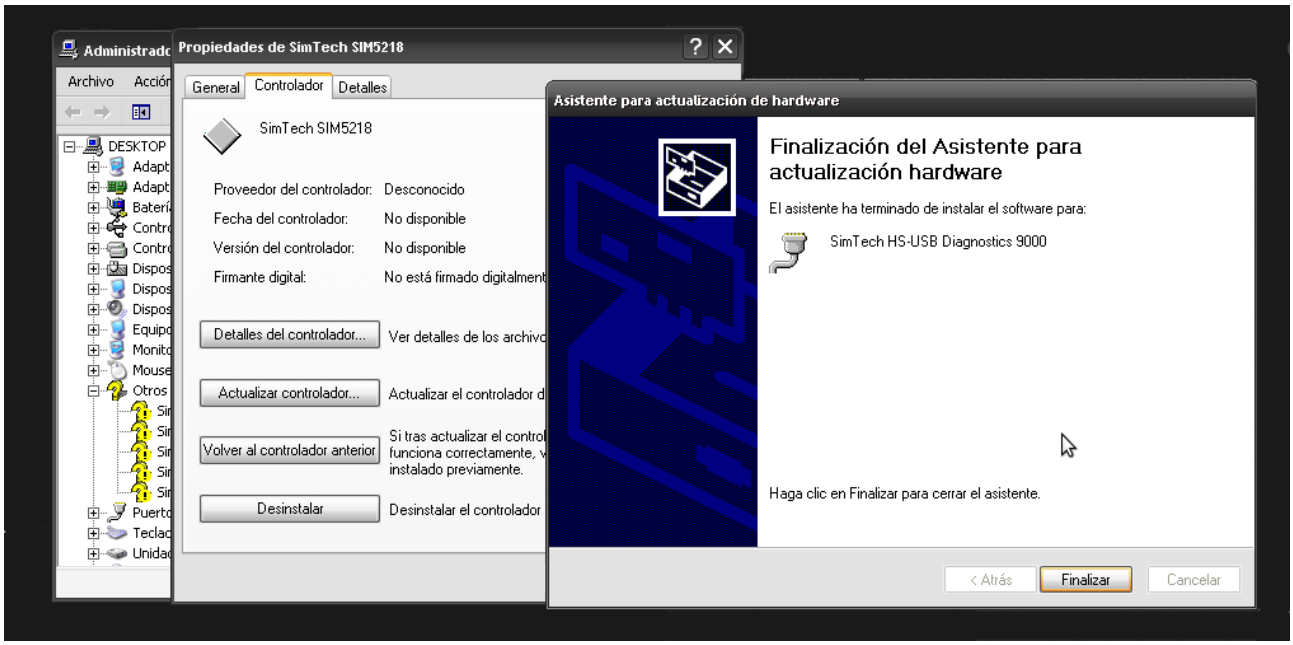


Select install from a list or specific location.

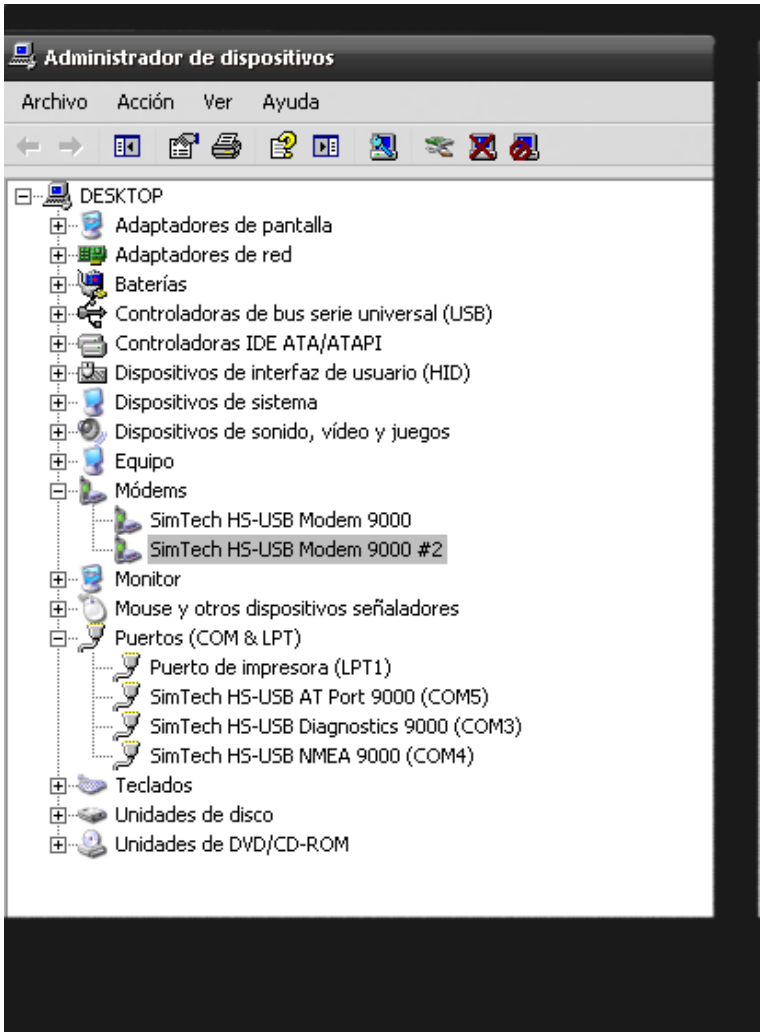


In pop-up window select the directory where the drivers previously downloaded,





Now, drivers are installed. The device is recognize.

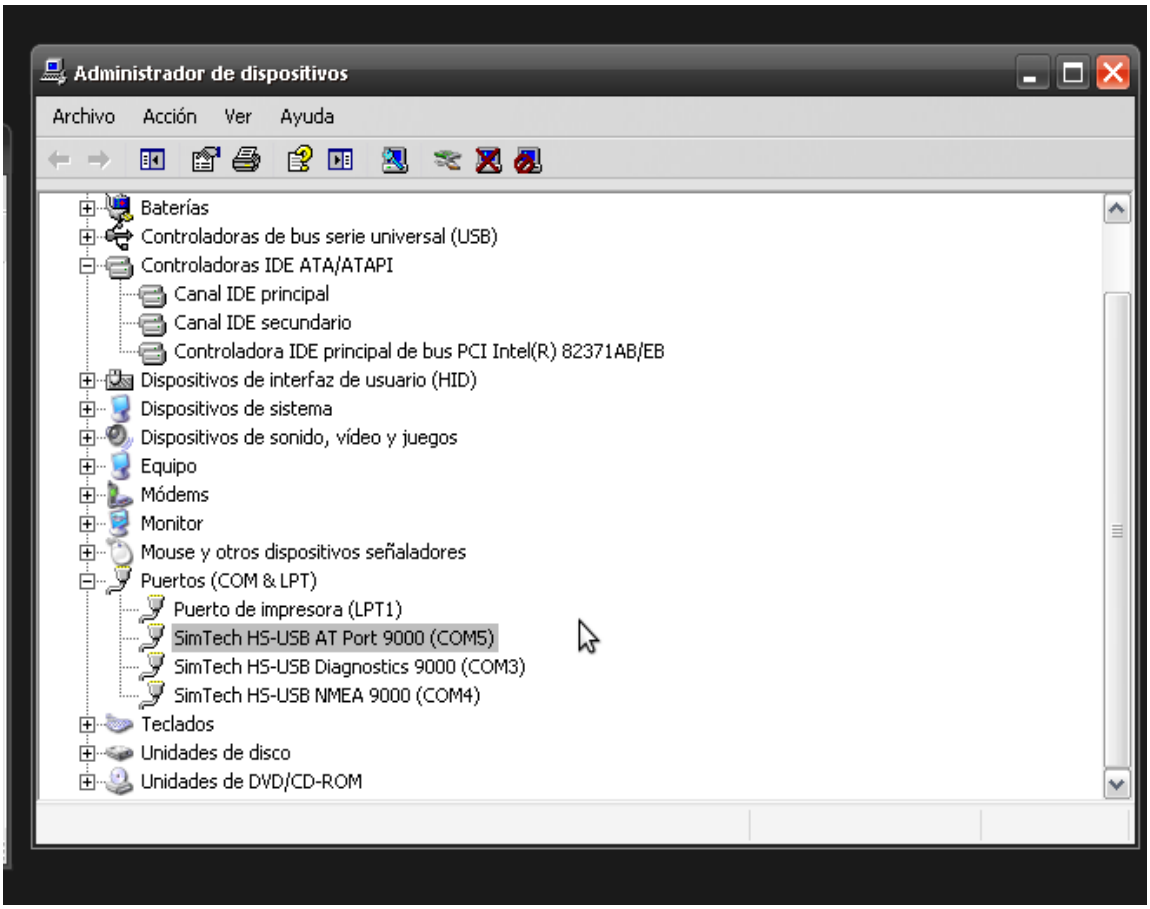


Once the device is connected and recognized by the operating system. We can use it.

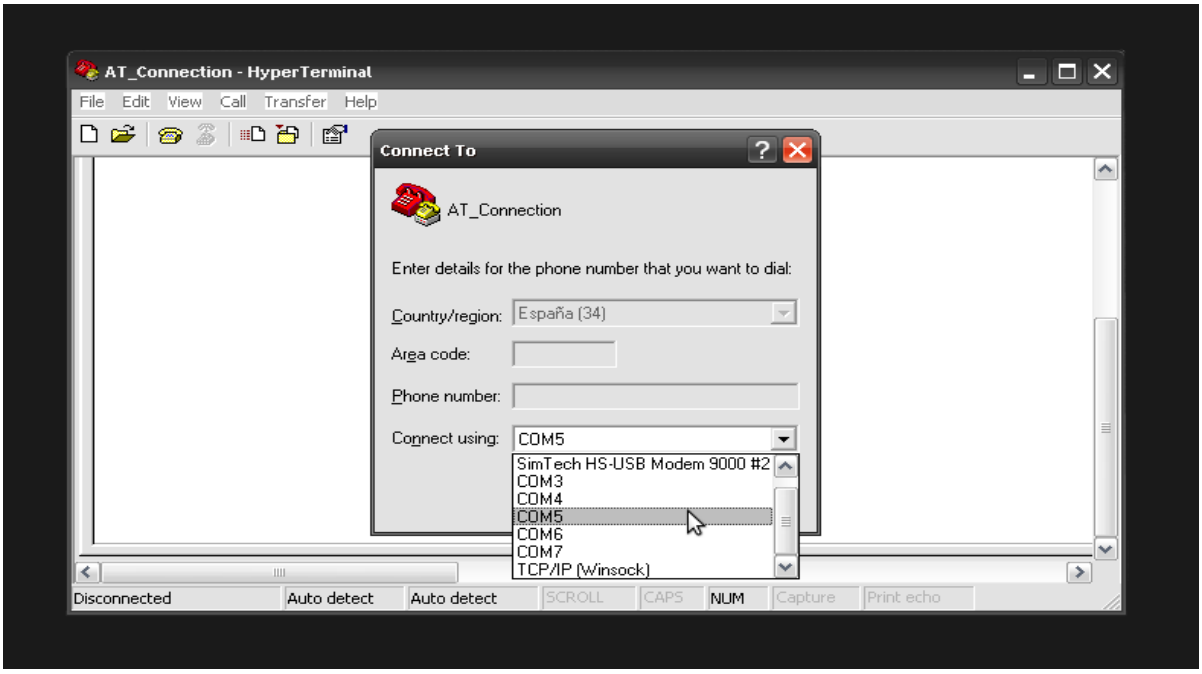
To communicate with the module has been decided to use the Hyperterminal program to Windows XP. This program will allow us to communicate with the module through AT commands or use it as modem.

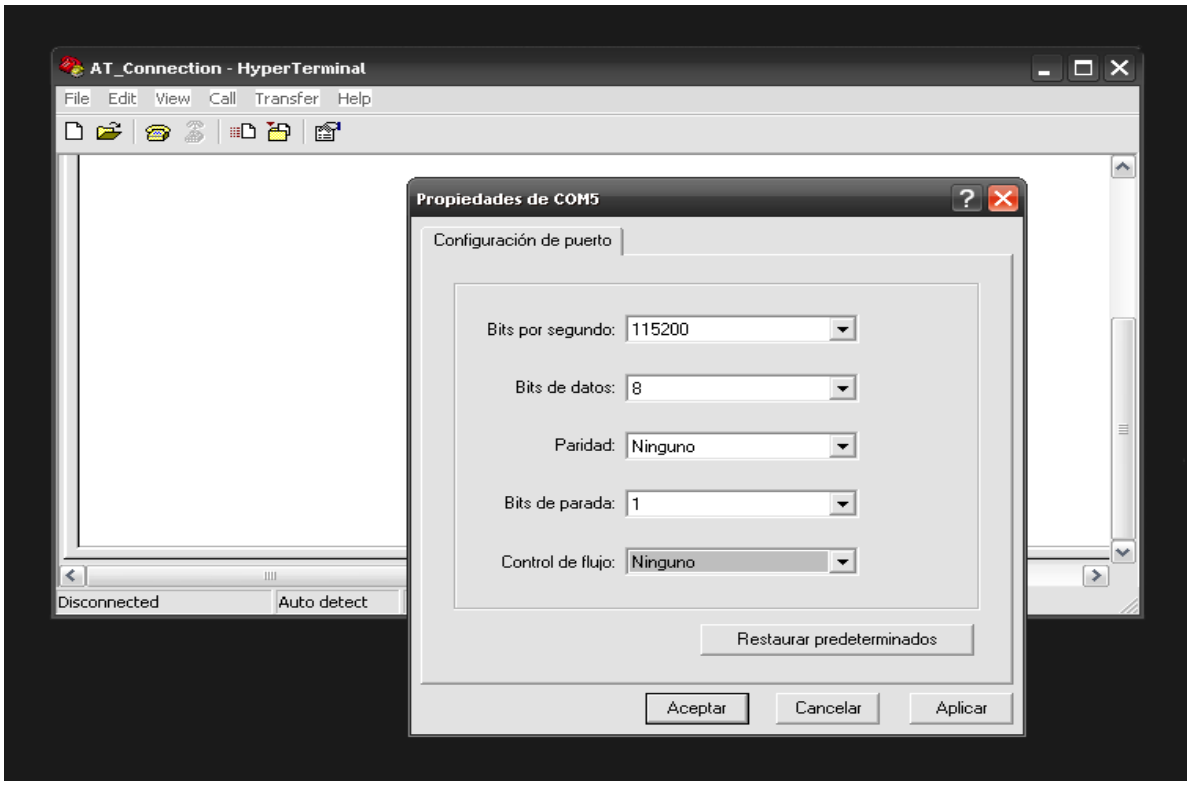
Run Hyper-terminal, and create new connection.

For use the module with AT commands, First, we must find what is the port to connect to send AT commands.

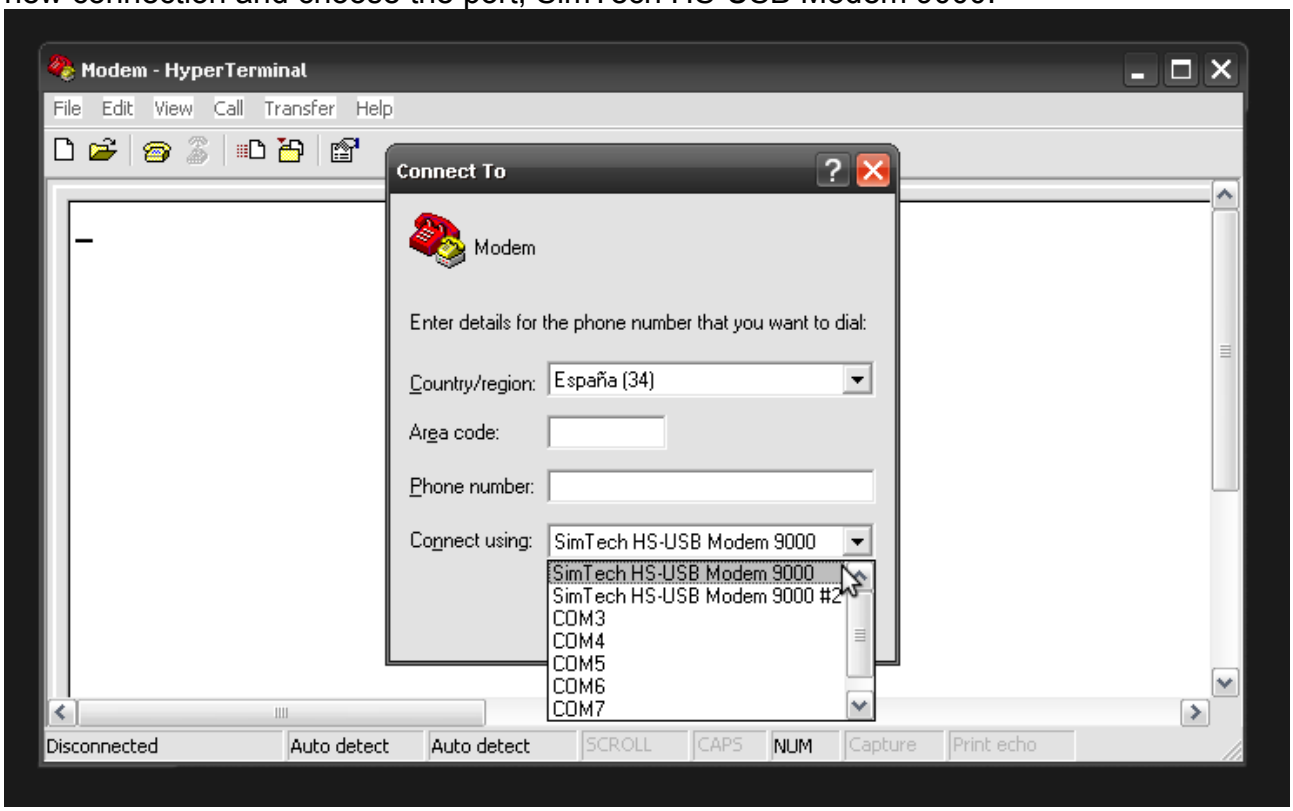


The next step, is to configure the device. In the follow images can see how it is:





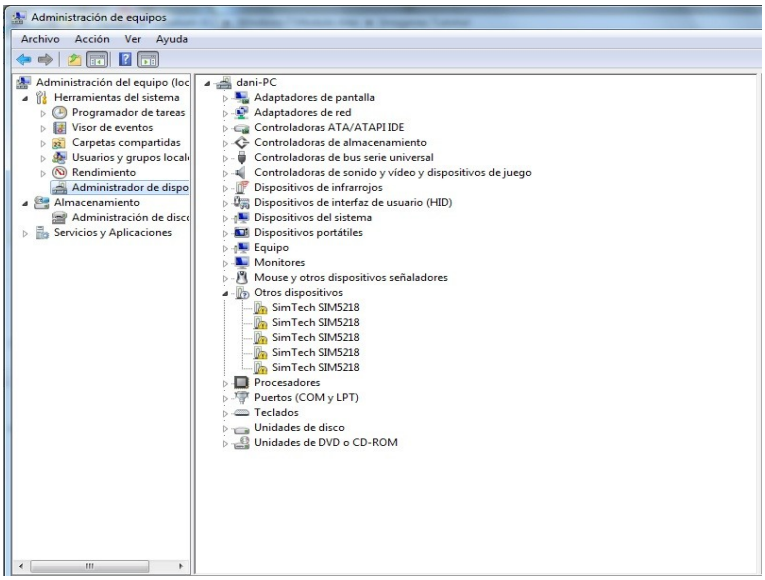
In case you want to configure the module as a modem SIM5218E should create a new connection and choose the port, SimTech HS-USB Modem 9000.



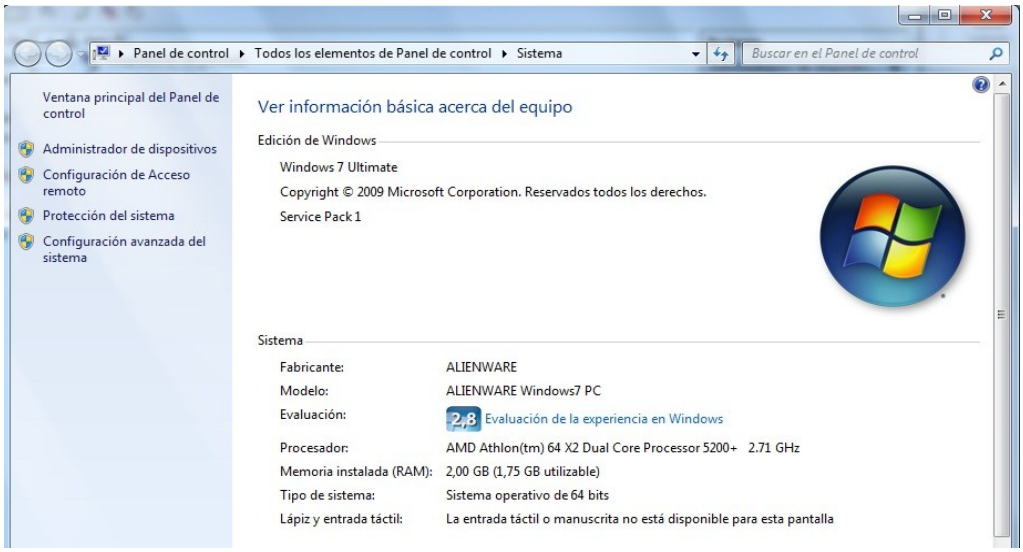
Windows 7

Plug in SIM5218 to the computer. Check drivers are installed, if they is not installed, you must do it.

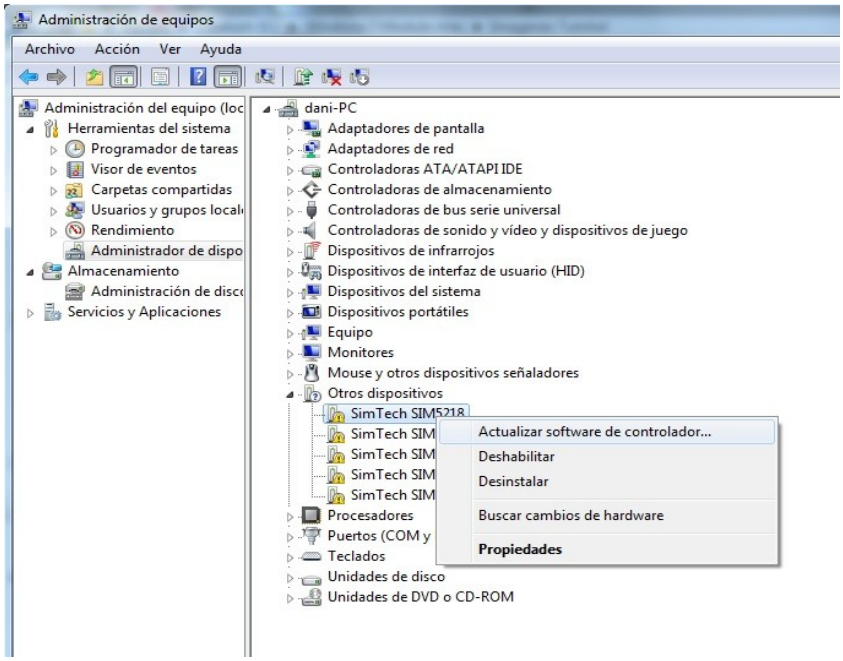
Computer Management can find that devices are recognized and which need a driver. In this case one can see that there are five devices that have no driver.



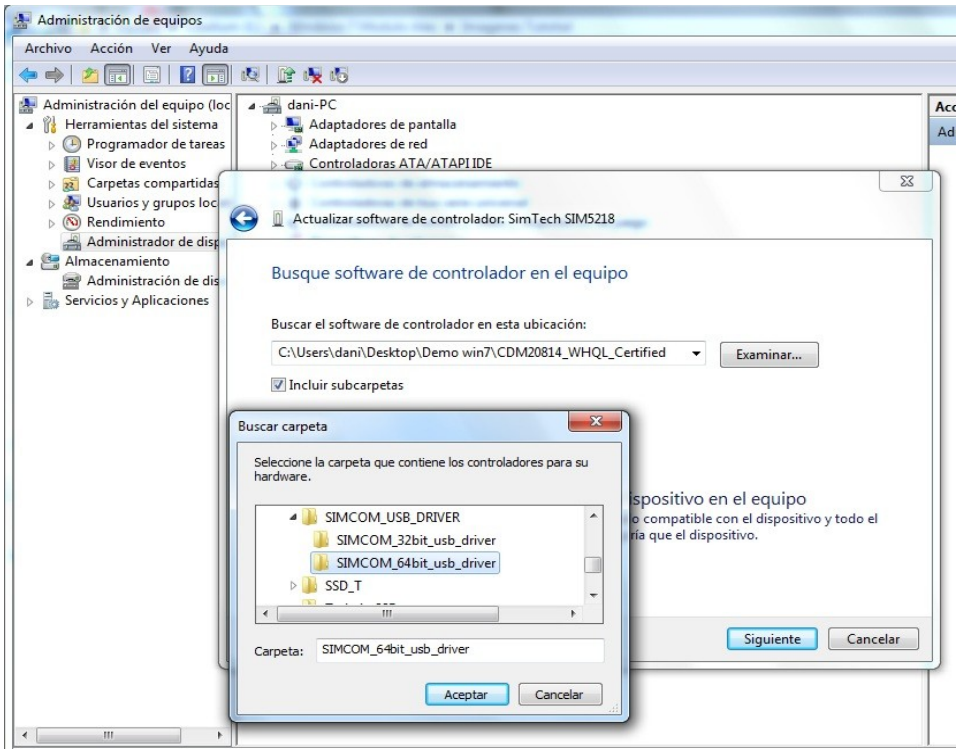
Before installing the drivers for the SIM module, we must check what version of operating system we have. Depending on the version of operating system we use the device drivers 32 or 64 bits.



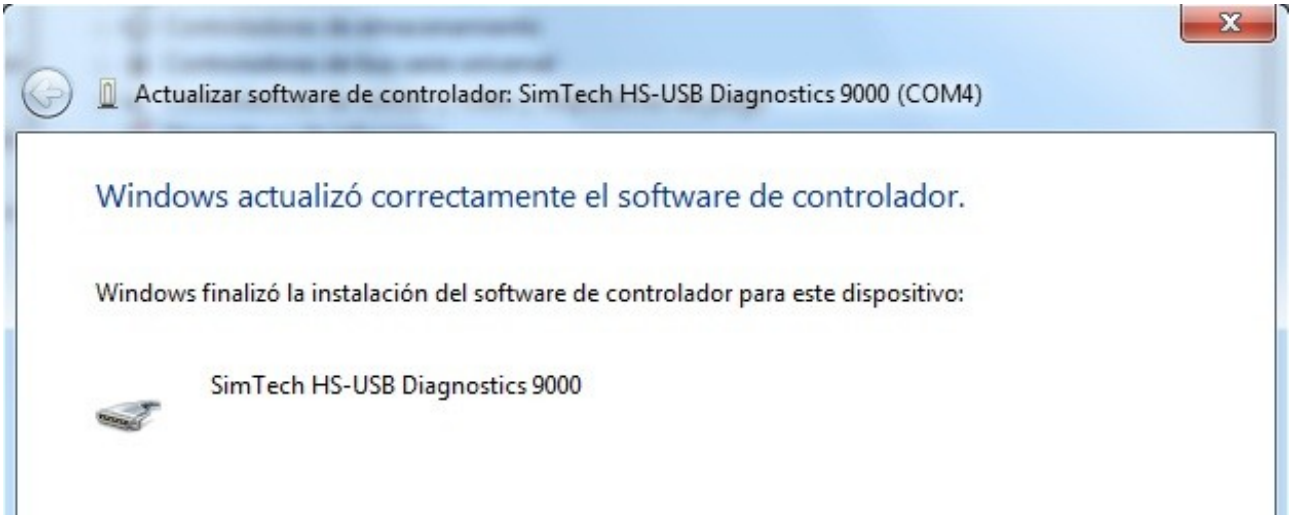
Now, we install drivers, We select for this option in the sub menu the Update Driver Software. We repeat this process for the five missing drivers.



We look for the drivers we downloaded, and select it.

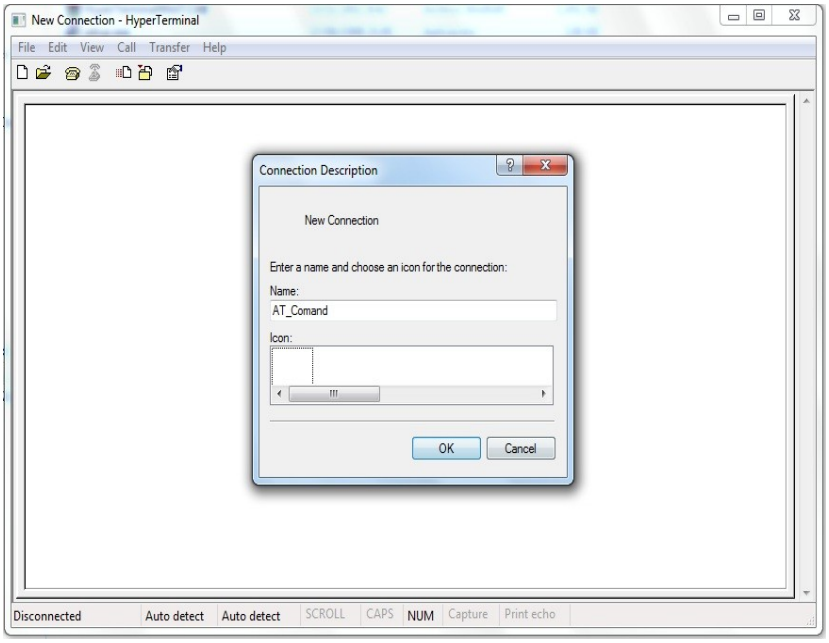


Pressed the button accept. Drivers are installed.

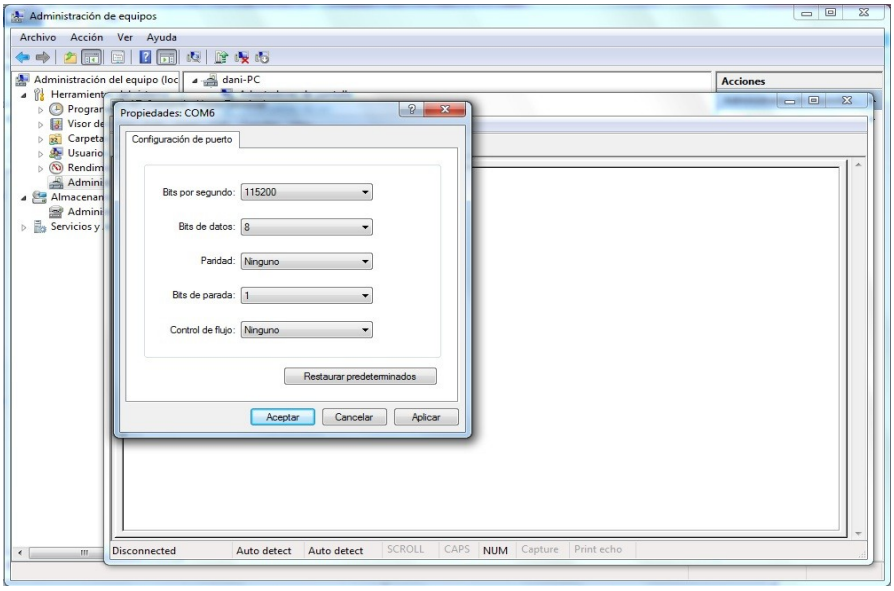


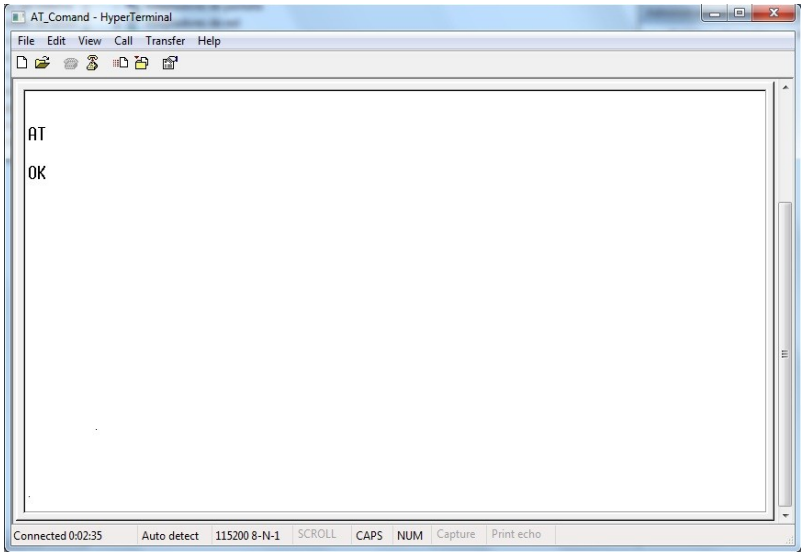
To communicate with the module SIM5218 through AT commands, we will need the Hyper-terminal program. This program can be found at the following address:

Once installed Hyper-terminal, create a new connection.



Configure the connection as it appears in the figure 7. The port you have to choose to communicate with the module through AT commands, so get looking at the system administrator. This time the port for communications with AT commands is port COM6.





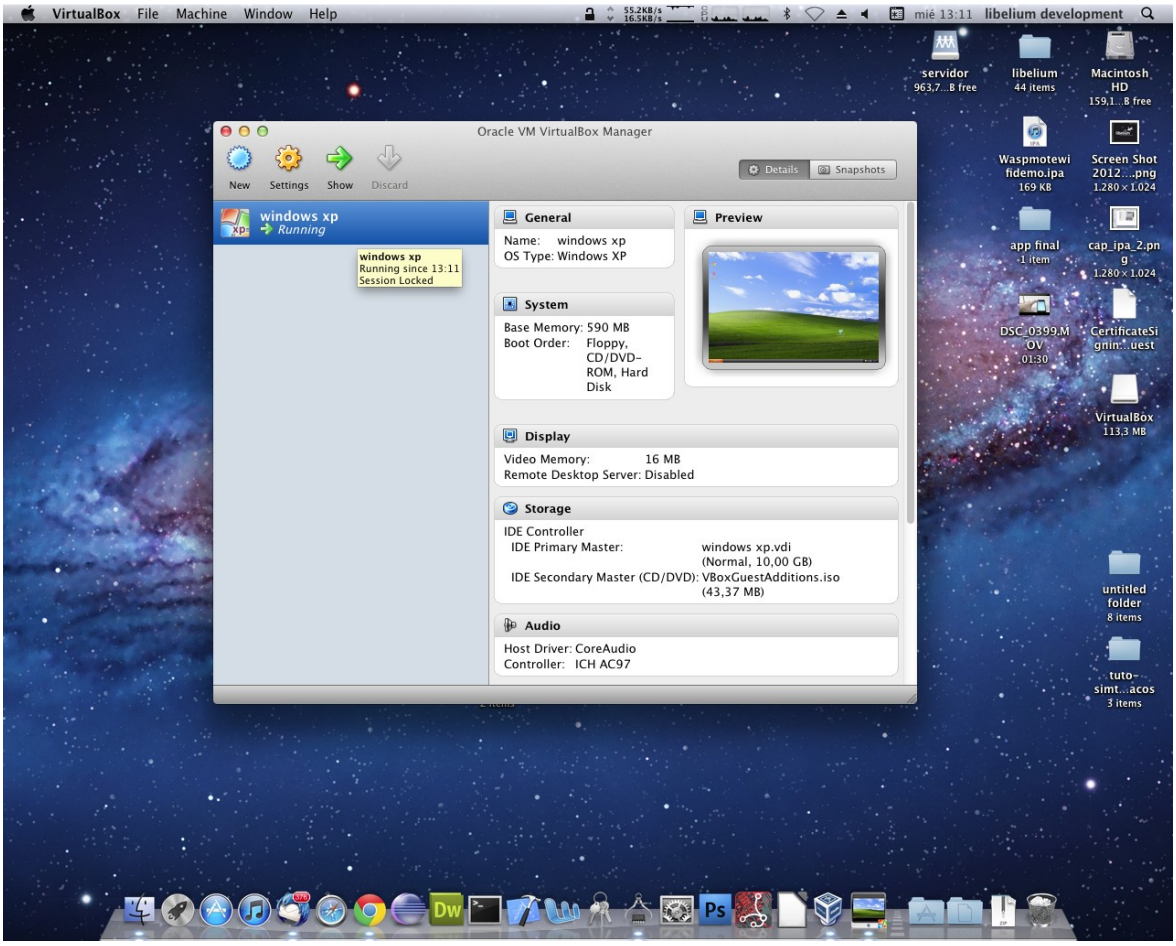
TUTORIAL Mac OS X

First, download a virtual machine, VirtualBox in this case

Install the Virtual Machine

Select the virtual machine application.

Install windows in the virtual machine



Run windows into the virtual machine

Click on the usb icon into the virtual machine screen, and select SimTech...

And then, follow windows tutorial