

# Conectar movil Sony Ericson Z520i con bluetoooh al pc

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Realizado con: **L<sup>A</sup>T<sub>E</sub>X**

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## 1. Introducción

Sony Ericson Z520i

[http://www.sonyericsson.com/spg.jsp?cc=es&lc=es&ver=4000&template=pp1\\_loader&php=PHP1\\_10298&zone=pp&lm=pp1&pid=10298](http://www.sonyericsson.com/spg.jsp?cc=es&lc=es&ver=4000&template=pp1_loader&php=PHP1_10298&zone=pp&lm=pp1&pid=10298)

## 2. Mi bluetooth

CONTACT

Adaptador USB 1.1 CLASE 2

Bluetooth Cambridge Silicon Radio, Ltd Bluetooth Dongle

<http://www.bluetooth.com/products/prods.details.asp?CPID=1694&CAT=9>

[http://www.windigosys.com/app\\_usbdongle.htm](http://www.windigosys.com/app_usbdongle.htm)

## 3. El Kernel

Mi kernel:

```
uname -a
```

```
Linux aldarias.dyndns.org 2.6.13.2 7 SMP Sat Sep 24 17:49:28 CEST 2005 i686 GNU/Linux
```

```
Networking --->
```

```
<M> Bluetooth subsystem support --->
```

```
Device Drivers --->
```

```
USB support ---
```

```
<M> EHCI HCD (USB 2.0) support
```

```
  [*] Full speed ISO transactions (EXPERIMENTAL)
```

```
  [*] Root Hub Transaction Translators (EXPERIMENTAL)
```

```
<M> ISP116X HCD support
```

```
<M> OHCI HCD support
```

```
<M> UHCI HCD (most Intel and VIA) support
```

```
<M> SL811HS HCD support
```

## 4. Drivers

<http://coffelius.bloggear.net/archivos/2005/09/24/instalar-dispositivos-bluetooth>

Fichero:

```
/usr/src/linux/drivers/bluetooth/hci_usb.c
```

Añadir:

```
/* Bluetooth Cambridge Silicon Radio, Ltd Bluetooth Dongle*/
  { USB_DEVICE(0x0a12,0x0001) },
```

lsusb dice que tengo este aparato:

```
Bus 001 Device 004: ID 0a12:001 Cambridge Silicon Radio,
Ltd Bluetooth Dongle (HCI mode)
```

Para hacer que el kernel lo detecte es tan simple como seguir estos pasos:

## 5. El adaptador bluetooth

Adaptador Bluetooth para puerto usb 1.1 class2 Contact

```
lsusb
```

```
Bus 003 Device 002: ID 0a12:0001 Cambridge Silicon Radio, Ltd Bluetooth Dongle (HCI
```

## 6. Modulos cargados

```
lsmod | grep hci
```

```
hci_usb          17416  2
bluetooth        54532  7 hci_usb,rfcomm,l2cap
ohci_hcd         23428  0
```

## 7. El log

```
cat /var/log/kern.log
```

```
Dec 18 14:29:59 aldarias kernel: Bluetooth: HCI device and connection manager initi
Dec 18 14:29:59 aldarias kernel: Bluetooth: HCI socket layer initialized
Dec 18 14:30:18 aldarias kernel: ohci_hcd 0000:00:02.1: wakeup
Dec 18 14:30:19 aldarias kernel: usb 3-1: new full speed USB device using ohci_hcd
Dec 18 14:30:30 aldarias kernel: kobject_register failed for uhci_hcd (-17)
Dec 18 14:30:30 aldarias kernel: [<c0230d3b>] kobject_register+0x6b/0x80
Dec 18 14:30:30 aldarias kernel: [<c01400c2>] mod_sysfs_setup+0x62/0xd0
Dec 18 14:30:30 aldarias kernel: [<c01416c8>] load_module+0xaf8/0xcd0
Dec 18 14:30:30 aldarias kernel: [<c0141943>] sys_init_module+0x73/0x240
Dec 18 14:30:30 aldarias kernel: [<c01034d1>] syscall_call+0x7/0xb
Dec 18 14:30:30 aldarias kernel: kobject_register failed for ehci_hcd (-17)
Dec 18 14:30:30 aldarias kernel: [<c0230d3b>] kobject_register+0x6b/0x80
Dec 18 14:30:30 aldarias kernel: [<c01400c2>] mod_sysfs_setup+0x62/0xd0
Dec 18 14:30:30 aldarias kernel: [<c01416c8>] load_module+0xaf8/0xcd0
Dec 18 14:30:30 aldarias kernel: [<c0141943>] sys_init_module+0x73/0x240
Dec 18 14:30:30 aldarias kernel: [<c01034d1>] syscall_call+0x7/0xb
Dec 18 14:38:48 aldarias kernel: kobject_register failed for uhci_hcd (-17)
Dec 18 14:38:48 aldarias kernel: [<c0230d3b>] kobject_register+0x6b/0x80
```

```
Dec 18 14:38:48 aldarias kernel: [<c01400c2>] mod_sysfs_setup+0x62/0xd0
Dec 18 14:38:48 aldarias kernel: [<c01416c8>] load_module+0xaf8/0xcd0
Dec 18 14:38:48 aldarias kernel: [<c0141943>] sys_init_module+0x73/0x240
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Dec 18 14:38:48 aldarias kernel: kobject_register failed for ehci_hcd (-17)
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Dec 18 14:38:48 aldarias kernel: [<c0141943>] sys_init_module+0x73/0x240
Dec 18 14:38:48 aldarias kernel: [<c01034d1>] syscall_call+0x7/0xb
```

## 8. Escaneando

listado de los dispositivos y su direccion  
hcitool scan

```
Scanning ...
    00:13:70:E7:95:AD          Ponce
```

Ponce es el nombre del bluetooth en el movil

```
hciconfig -a
hci0:   Type: USB
        BD Address: 00:0A:84:AA:4A:7F ACL MTU: 192:8 SCO MTU: 64:8
        UP RUNNING PSCAN ISCAN
        RX bytes:426 acl:0 sco:0 events:22 errors:0
        TX bytes:339 acl:0 sco:0 commands:17 errors:0
        Features: 0xff 0xff 0x8f 0xf8 0x18 0x18 0x00 0x80
        Packet type: DM1 DM3 DM5 DH1 DH3 DH5 HV1 HV2 HV3
        Link policy: RSWITCH HOLD SNIFF PARK
        Link mode: SLAVE ACCEPT
        Name: 'aldarias.dyndns.org-0'
        Class: 0x3e0100
        Service Classes: Networking, Rendering, Capturing
        Device Class: Computer, Uncategorized
        HCI Ver: 1.2 (0x2) HCI Rev: 0x639 LMP Ver: 1.2 (0x2) LMP Subver: 0x639
        Manufacturer: Cambridge Silicon Radio (10)
```

## 9. Para ver los servicios

```
sdptool browse 00:13:70:E7:95:AD
```

```
Service Name: OBEX File Transfer
Service RecHandle: 0x10001
```

```
Service Class ID List:
"OBEX File Transfer" (0x1106)
Protocol Descriptor List:
"L2CAP" (0x0100)
"RFCOMM" (0x0003)
  Channel: 10
"OBEX" (0x0008)
Language Base Attr List:
code_ISO639: 0x656e
encoding:    0x6a
base_offset: 0x100
Profile Descriptor List:
"OBEX File Transfer" (0x1106)
  Version: 0x0100
```

Permite ver el canal es el 10.

## 10. Crear el nodo

```
mknod /dev/ttyUB0 c 216 0
```

## 11. Configuración

```
hciconfig
hci0:  Type: USB
      BD Address: 00:0A:84:AA:4A:7F ACL MTU: 192:8 SCO MTU: 64:8
      UP RUNNING PSCAN ISCAN
      RX bytes:426 acl:0 sco:0 events:22 errors:0
      TX bytes:339 acl:0 sco:0 commands:17 errors:0
```

## 12. El proceso

```
ps -ae | grep hcid
5114 ?          00:00:00 hcid
```

## 13. obexftp

```
hcitool scan
Scanning ...
      00:16:20:45:95:32          Z520i

Listado:
```

```
obexftp -b 00:16:20:45:95:32 -B 7 -l
Browsing 00:16:20:45:95:32 ...
Channel: 6
No custom transport
Connecting...done
Receiving "(null)"... <?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE folder-listing SYSTEM "obex-folder-listing.dtd">
<!--
  XML Coder, Sep  6 2005, 17:35:19, (C) 2001 Sony Ericsson Mobile Communications AB
-->
<folder-listing version="1.0"><folder name="Imágenes"/>
<folder name="Sonidos"/>
<folder name="Temas"/>
<folder name="VÍdeos"/>
<folder name="Otros"/>
</folder-listing>
done
```

Enviar un archivo al movil:

```
obexftp -b Z520i -B 7 -p farm.mp3
```

Coger un archivo del movil

```
obexftp -b Z520i -c Imágenes/camera_semc/100MSDCF -g DSC00006.JPG
```

## 14. Direcciones de interes

- Conectar el Motorola V550 al meu GNU/Linux amb Bluetooth  
<http://linuxbcn.homeip.net/node/58>
- Bluetooth bajo GNU/Linux  
<http://www.gpltarragona.org/node/view/336>
- BlueTooth en Linux HOWTO  
<http://www.asturlinux.org/~alvaro/noticias/docs/bthowto/adjuntos/bluetooth.howto.htm>
- GNOME Bluetooth Subsystem  
<http://usefulinc.com/software/gnome-bluetooth/>
- BlueTooth en Linux HOWTO  
<http://www.asturlinux.org/comunidad/BlueToothHowTo>
- Linux Bluetooth  
<http://acs.barrapunto.org/~acs/LinuxBluetooth.pdf>
- Red  
[http://www.sromero.org/linux/bluetooth\\_ht.php](http://www.sromero.org/linux/bluetooth_ht.php)

- Guía del Bluetooth en Gentoo  
<http://www.gentoo.org/doc/es/bluetooth-guide.xml>
- Fixers de video 3gpp amb linux  
<http://www.comesfa.org/node/1697>
- Bluetooth en Linux  
[http://es.wikibooks.org/wiki/Hacks\\_para\\_Unix-like:Bluetooth\\_en\\_Linux](http://es.wikibooks.org/wiki/Hacks_para_Unix-like:Bluetooth_en_Linux)  
Bluetooth and Linux  
<http://www.holtmann.org/linux/bluetooth/>
- Bluetooth,. kdebluetooth  
<http://bits.sid3windr.be/tm8000/>
- HOWTO: Using Bluetooth to acces Mobile Phone and use BT-Headset to use Skype  
<http://ubuntuforums.org/showthread.php?t=75978&highlight=bluetooth>
- Cómo conectar un móvil al ordenador con Bluetooth  
<http://gpul.org/node/view/140>
- The KDE Bluetooth Framework  
<http://kde-bluetooth.sourceforge.net/>
- The KDE Bluetooth -ita  
[http://www.mepisitalia.org/modules/newbb/viewtopic.php?viewmode=flat&order=ASC&topic\\_id=469&forum=2&move=next&topic\\_time=1123495832](http://www.mepisitalia.org/modules/newbb/viewtopic.php?viewmode=flat&order=ASC&topic_id=469&forum=2&move=next&topic_time=1123495832)
- Cómo conectar el móvil al ordenador  
[http://www.clubsonyericsson.com/es/soporte\\_conectar.shtml](http://www.clubsonyericsson.com/es/soporte_conectar.shtml)