dreambox update example

check if the device has been recognized

```
root@dm7020 /tmp # dmesg
<.....>
usb 1-1.4: USB disconnect, address 4
FTDI 8U232AM Compatible ttyUSB0: FTDI 8U232AM Compatible converter now disconnected from ttyUSB0
ftdi_sio 1-1.4:1.0: device disconnected
usb 1-1.4: new full speed USB device using address 5
ftdi_sio 1-1.4:1.0: FTDI 8U232AM Compatible converter detected
usb 1-1.4: FTDI 8U232AM Compatible converter now attached to ttyUSB0
```

device has been recognized by the dreambox

```
root@dm7020 /tmp # ./srp_update_ppc -d /dev/usb/tts/0

smartreader+ version v1.1
```

ok so we found a reader version v1.1, time to update

```
root@dm7020 /tmp # ./srp_update_ppc -d /dev/usb/tts/0 -b

smartreader+ version v1.1
bootloader mode activated
Remove and reinsert SmartReader+ then restart application
```

remove the reader and reinsert then issue the flash command

```
root@dm7020 /tmp # ./srp_update_ppc -d /dev/usb/tts/0 -f
start flashing
############################################################ done
Please remove and reinsert SmartReader+
```

remove the reader and reinsert now we start the config tool

```
root@dm7020 /tmp # ./srp_tools_ppc  -d /dev/usb/tts/0

smartreader+ version v1.3

MODE    autoswitch
FREQ    3.69 Mhz
KERNEL  normal
T_MODE  t = 0
EGT     0
```

its recognized ok, now we set it for dreambox mode

```
root@dm7020 /tmp # ./srp_tools_ppc  -d /dev/usb/tts/0 -p 1

smartreader+ version v1.3

MODE    autoswitch
FREQ    3.69 Mhz
KERNEL  dreambox
T_MODE  t = 0
EGT     0
```

ok done.

Pc update example

check if the device has been recognized

```
tux@x-c2c559d7c6af4:~$ dmesg
<.....>
usb 5-1.4: new full speed USB device using ehci_hcd and address 9
usb 5-1.4: configuration #1 chosen from 1 choice
ftdi_sio 5-1.4:1.0: FTDI USB Serial Device converter detected
drivers/usb/serial/ftdi_sio.c: Detected FT232BM
usb 5-1.4: FTDI USB Serial Device converter now attached to ttyUSB0
```

ok device is recognized

```
tux@x-c2c559d7c6af4:~$ ./srp_update_x86

smartreader+ version v1.1
```

ok so we found a reader version v1.1, time to update

```
tux@x-c2c559d7c6af4:~$ ./srp_update_x86 -b

smartreader+ version v1.1
bootloader mode activated
Remove and reinsert SmartReader+ then restart application
```

remove the reader and reinsert then issue the flash command

```
tux@x-c2c559d7c6af4:~$ ./srp_update_x86 -f
start flashing
############################################################ done
Please remove and reinsert SmartReader+
```

remove the reader and reinsert now we start the config tool

```
tux@x-c2c559d7c6af4:~$ ./srp_tools_x86

smartreader+ version v1.3

MODE    autoswitch
FREQ    3.69 Mhz
KERNEL  normal
T_MODE  t = 0
EGT     0
```

ok done.

Reader settings examples

check the options by issuing the help command

```
tux@x-c2c559d7c6af4:~$ ./srp_tools_x86 -h

Smartreader+ configtool v1.3

usage: <options>
options:
      -d <comport> (default comport = "/dev/ttyUSB0")
      -p <0 = pc / 1 = dreambox>
      -m <0 = autoswitch / 1 = fixed Mhz> mode

      in fixed mode you can also apply:
      -x <frequency>
      -t <val> t = val
      -e <val> egt = val
```

Set the reader to 8 Mhz fixed

```
tux@x-c2c559d7c6af4:~$ ./srp_tools_x86 -m 1 -x 6

smartreader+ version v1.3

MODE    fixed
FREQ    8.00 Mhz
KERNEL  normal
T_MODE  t = 0
EGT     0
```

Set the reader to 5.33 Mhz fixed

```
tux@x-c2c559d7c6af4:~$ ./srp_tools_x86 -m 1 -x 9

smartreader+ version v1.3

MODE    fixed
FREQ    5.33 Mhz
KERNEL  normal
T_MODE  t = 0
EGT     0
```

Set the reader back to autoswitch mode

```
tux@x-c2c559d7c6af4:~$ ./srp_tools_x86 -m 0

smartreader+ version v1.3

MODE    autoswitch
FREQ    5.33 Mhz
KERNEL  normal
T_MODE  t = 0
EGT     0
```

Ok set to autoswitch, even the frequency is still set to 5,33 Mhz the autoswitch will override this settings and choose from either 3,57 Mhz or 6 Mhz (t=0 or t=1 card)

Possible reader frequencies

READER VALUES	MHZ
3	16
4	12
5	9.61
6	8
7	6.86
8	6
9	5.34
10	4.80
11	4.36
12	4
13	3.69
14	3.43
15	3.20