
RS232 operation instructor

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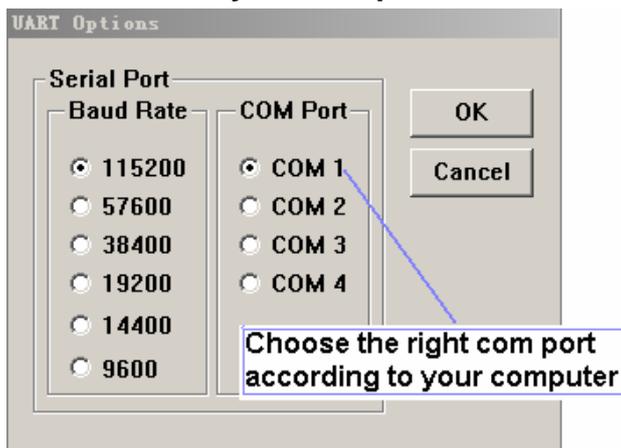
1、 Hardware Environment & Connections

- 1) For RS232 operation, the devices are as follows:
PC, RS232 Cable, DVR
If there is only laptop computer, USB to RS232 cable is required.
- 2) Connection Mode is as follows:
PC --- RS232 cable --- DVR
DVR to laptop computer



2、 RS232 operation

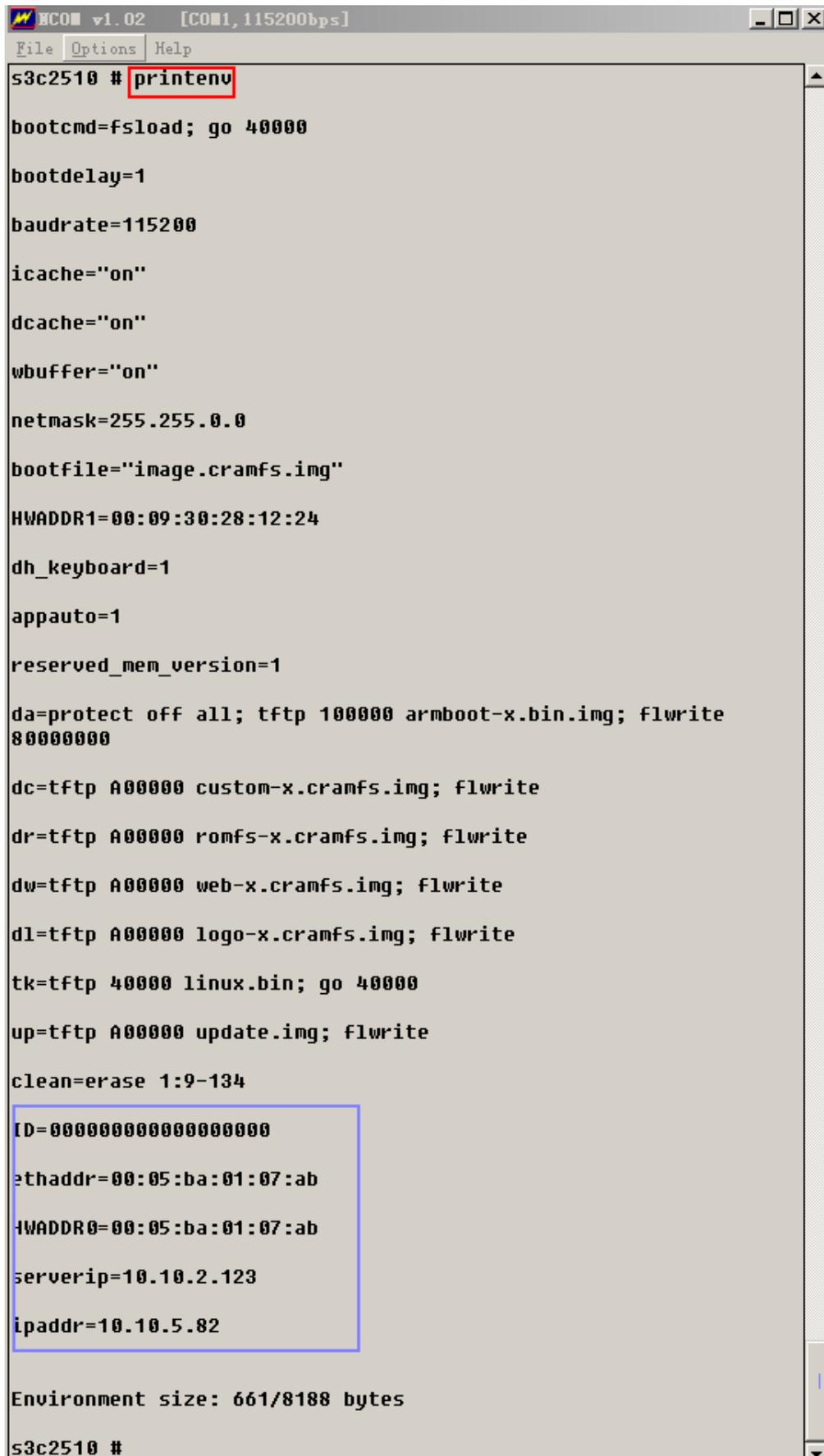
- 1) Run *NOCM* in your computer, the com set is as follows:



- 2) **Get the serial port information from DVR**

- A、 Restart the DVR , Click 3 * (upper right on number pad) when the words **Hit any key to stop autoboot** are on screen.
- B、 Now you can enter setup interface, and will see **s3c2510 #** in the screen
- C、 Type **appauto 0**
dh_keyboard 0
save

- then you will get the RS232 information from the DVR
- D、 Type "printenv" to show some information of the DVR



```
HCOM v1.02 [COM1,115200bps]
File Options Help
s3c2510 # printenv

bootcmd=fsload; go 40000
bootdelay=1
baudrate=115200
icache="on"
dcache="on"
wbuffer="on"
netmask=255.255.0.0
bootfile="image.cramfs.img"
HWADDR1=00:09:30:28:12:24
dh_keyboard=1
appauto=1
reserved_mem_version=1

da=protect off all; tftp 100000 armboot-x.bin.img; flwrite
80000000

dc=tftp A00000 custom-x.cramfs.img; flwrite
dr=tftp A00000 romfs-x.cramfs.img; flwrite
dw=tftp A00000 web-x.cramfs.img; flwrite
dl=tftp A00000 logo-x.cramfs.img; flwrite
tk=tftp 40000 linux.bin; go 40000
up=tftp A00000 update.img; flwrite

clean=erase 1:9-134

ID=00000000000000000000
ethaddr=00:05:ba:01:07:ab
HWADDR0=00:05:ba:01:07:ab
serverip=10.10.2.123
ipaddr=10.10.5.82

Environment size: 661/8188 bytes
s3c2510 #
```

E、Restart the DVR or type [booted](#) to startup the DVR

Illustration below is the operation interface.

```
HCOM v1.02 [COM1,115200bps]
File Options Help

Write Buffer is ON
Alarm init.
Hit any key to stop autoboot: 0
s3c2510 # *****
Unknown command '*****' - try 'help'
s3c2510 # setenv appauto 0
s3c2510 # setenv dh_keyboard 0
s3c2510 # save
Un-Protected 1 sectors
Erasing sector 1 ...
Saving environment to flash ...
done.
Protected 1 sectors
s3c2510 # booted
```

F、When you open the RS232 information, the DVR will not startup itself, and will stop at [Sash command shell \(version 1.1.1\)](#)

/>

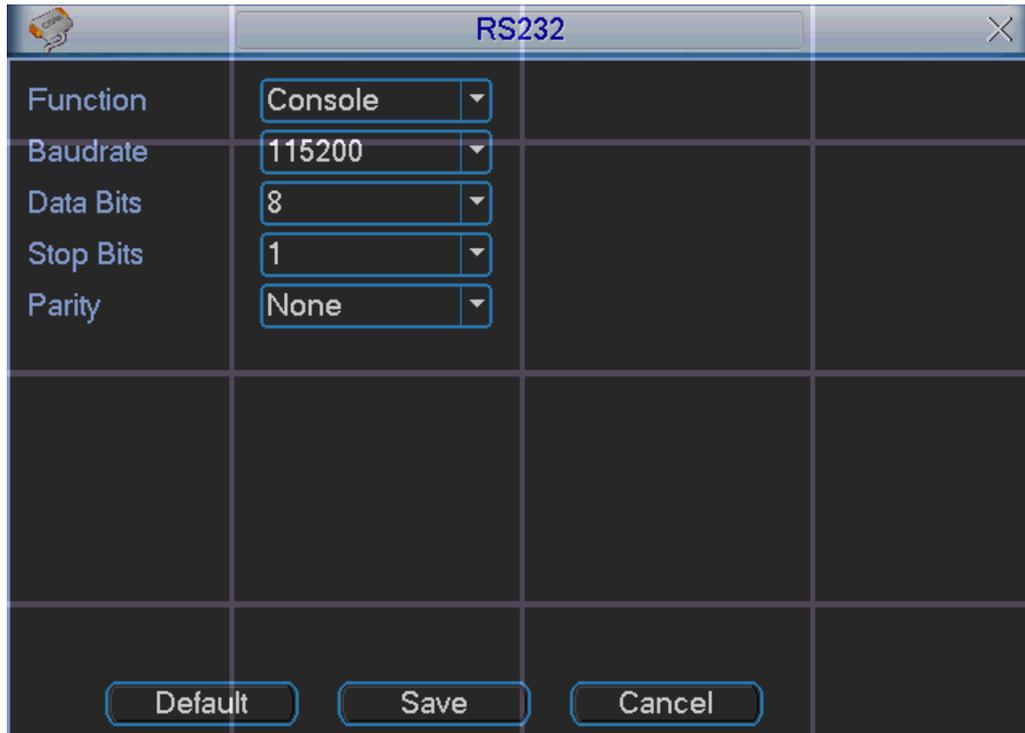
You need to type [ii](#) to startup the DVR

```
HCOM v1.02 [COM1,115200bps]
File Options Help

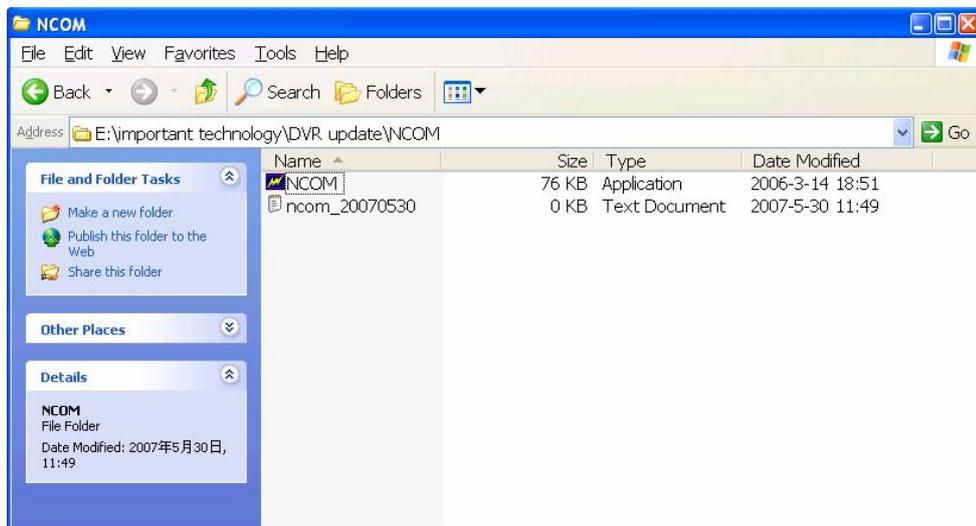
DDNS Client Get config failed, status = -1
libdvr version: 2.3.3 - Sep 21 2006
Reserved memory : start = 0x02000000 size= 0x02000000
SNTP START AURHOR:CJQ 20061120!
SNTP read config file error!
SNTP:get wrong config!
libdvr version: 2.3.3 - Sep 13 2006
Reserved memory : start = 0x02000000 size= 0x02000000
read CMOS
MAC : <00:05:ba:01:07:ab>
==> Send Gratuitous ARP
dvrHelper version: Sep 13 2006
Execution Finished, Exiting

Sash command shell (version 1.1.1)
/> /> /> ii
Shell invoked to run file: /sbin/ii
Command:
Command: /usr/bin/Challenge
```

D. Set RS232 settings of the DVR as follows



E. All the information can be found in the ncom log file



3) Close the serial port information printing of the DVR

We need to set DVR to this state before it is sent to customer

For most users they do not need to open the serial port printing of the DVR, so we must close before the DVR is sent to the users

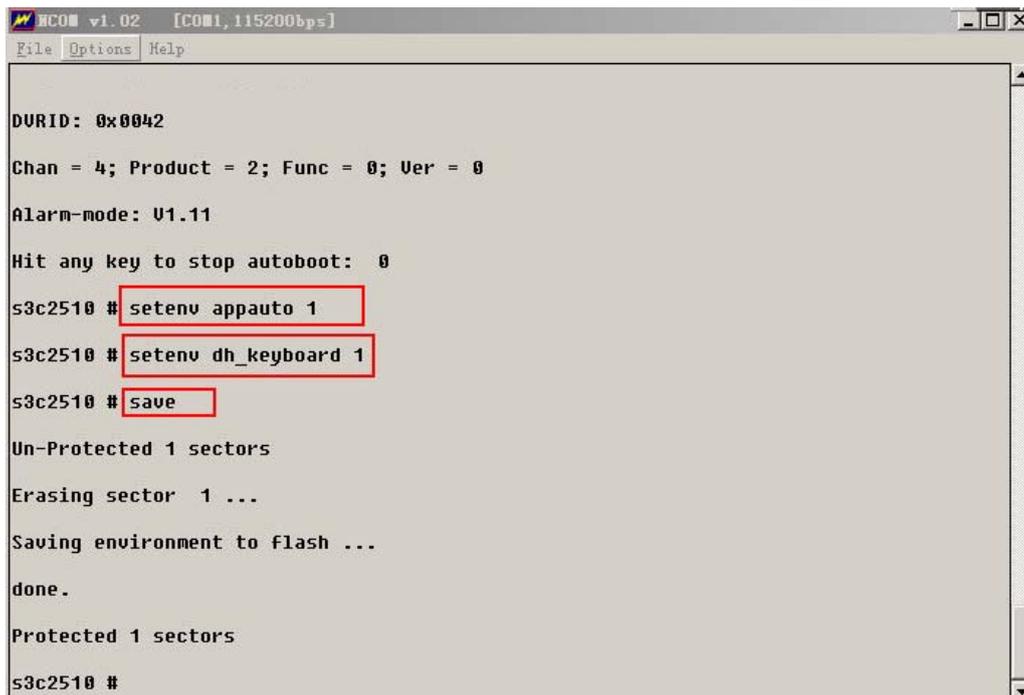
The operation is the same

A. Restart the DVR , Click 3 * to enter setup interface, and will see `s3c2510 #` in the screen

C. Type `appauto 1`
`dh_keyboard 1`
`save`

D、Restart the DVR or type `booted` to startup the DVR

Illustration below is the upgrade interface.



```
MCOM v1.02 [COM1, 115200bps]
File Options Help

DURID: 0x0042

Chan = 4; Product = 2; Func = 0; Ver = 0

Alarm-mode: V1.11

Hit any key to stop autoboot: 0
s3c2510 # setenv appauto 1
s3c2510 # setenv dh_keyboard 1
s3c2510 # save

Un-Protected 1 sectors
Erasing sector 1 ...
Saving environment to flash ...
done.
Protected 1 sectors
s3c2510 #
```

More Details

If you still have any problems about these functions, please contact with our engineers.