Software upgrade procedure by RS232

For models:
Opticum X80
Opticum X80 RF
Opticum X80 HDMI

1. Connect receiver to PC by RS232 null modem cable

2. Connect Power cord of receiver to power source,
3. Turn on receiver by red button on Remote control,
4. Run tool **Upgrade.exe**, set option „**Operate Mode:**" to „**Upgrade**",
5. Press „**Connect**" button
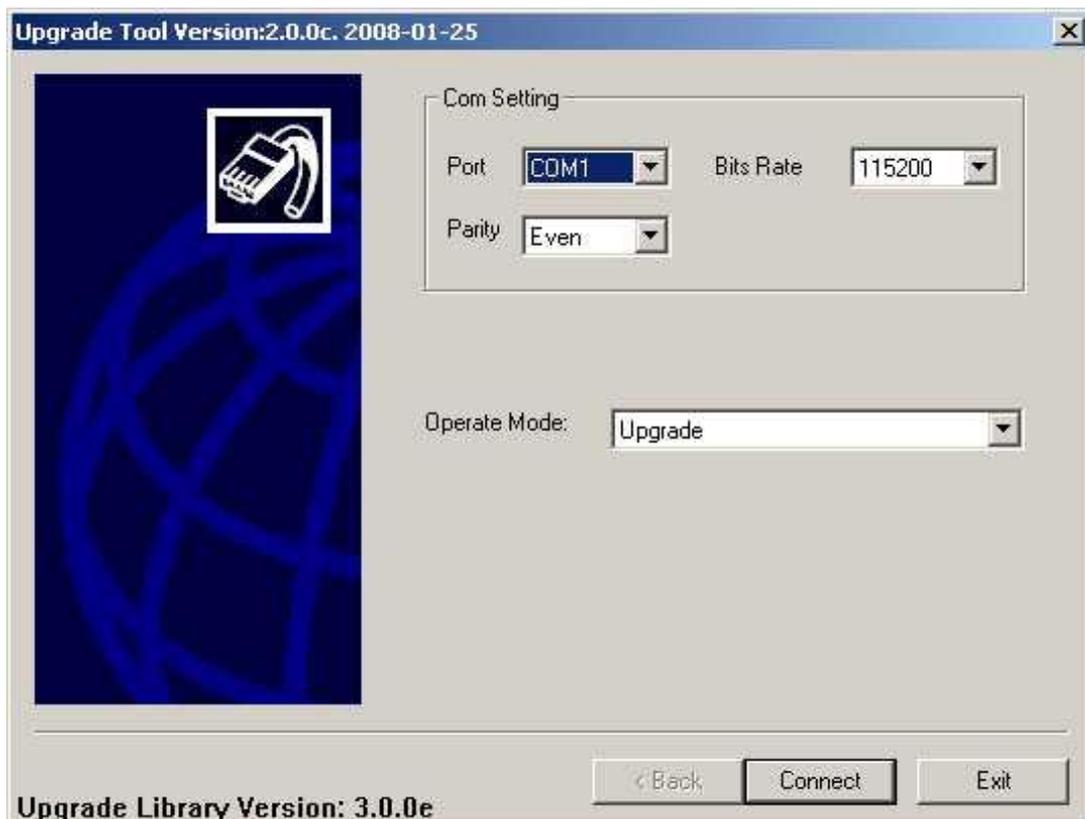
6. After short time (few seconds) receiver will connect to STB,
7. From displayed upgrade options choose *„All Chunk"* *by double clicking on it.*
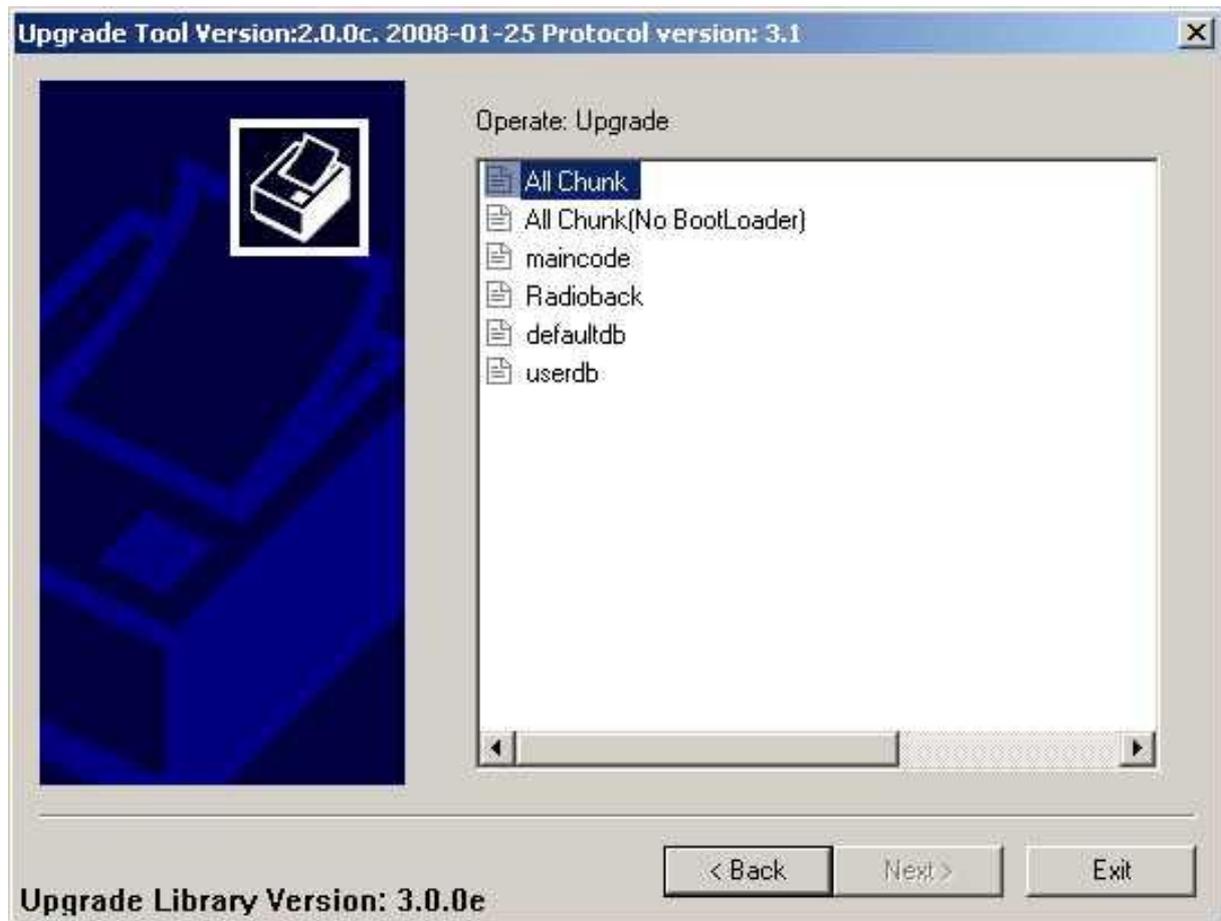
8. Choose proper *.abs file with new software.

WARNING!!! Check if software is exactly for your model number which is written on frontpanel. Using wrong software might damage receiver.

Press „**Open**"
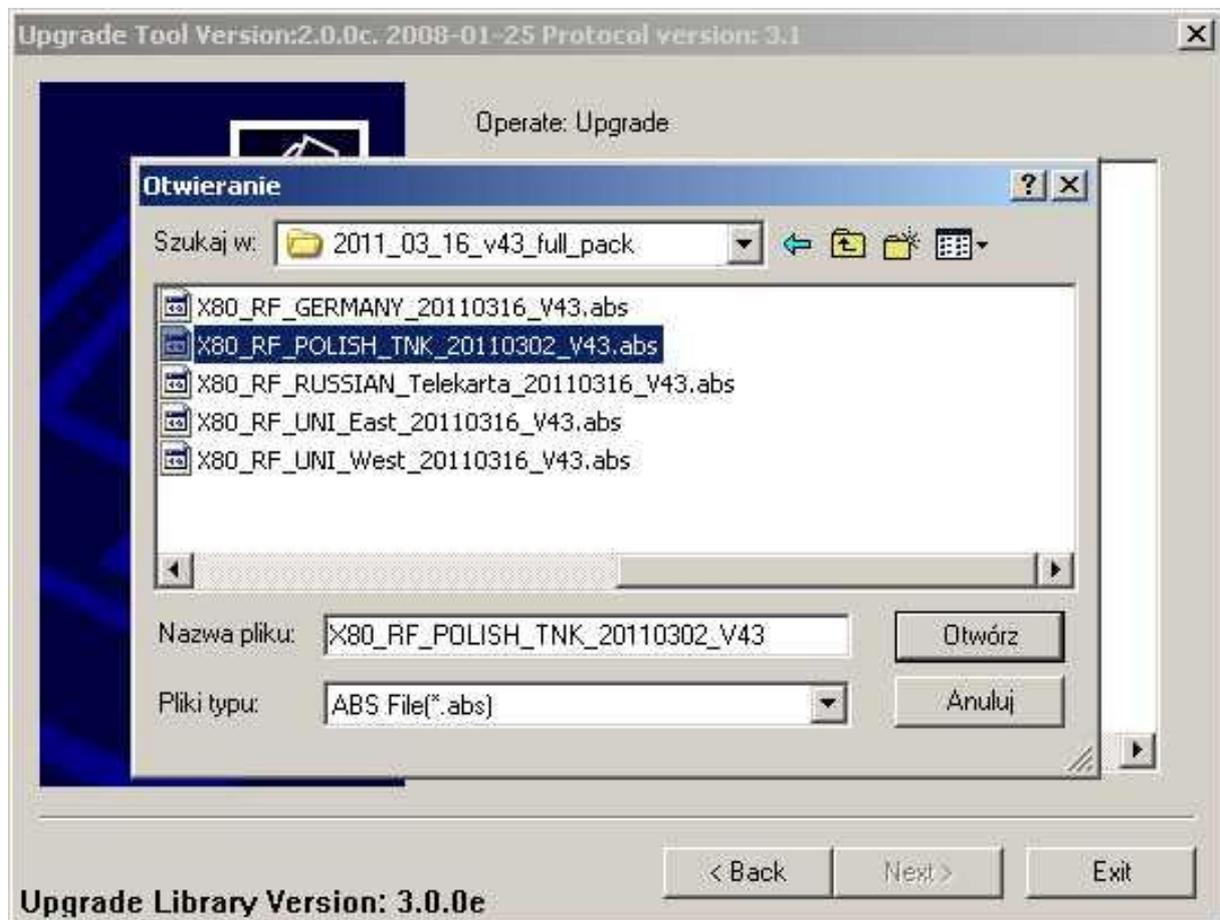
9. Press *„NEXT>"* to confirm,
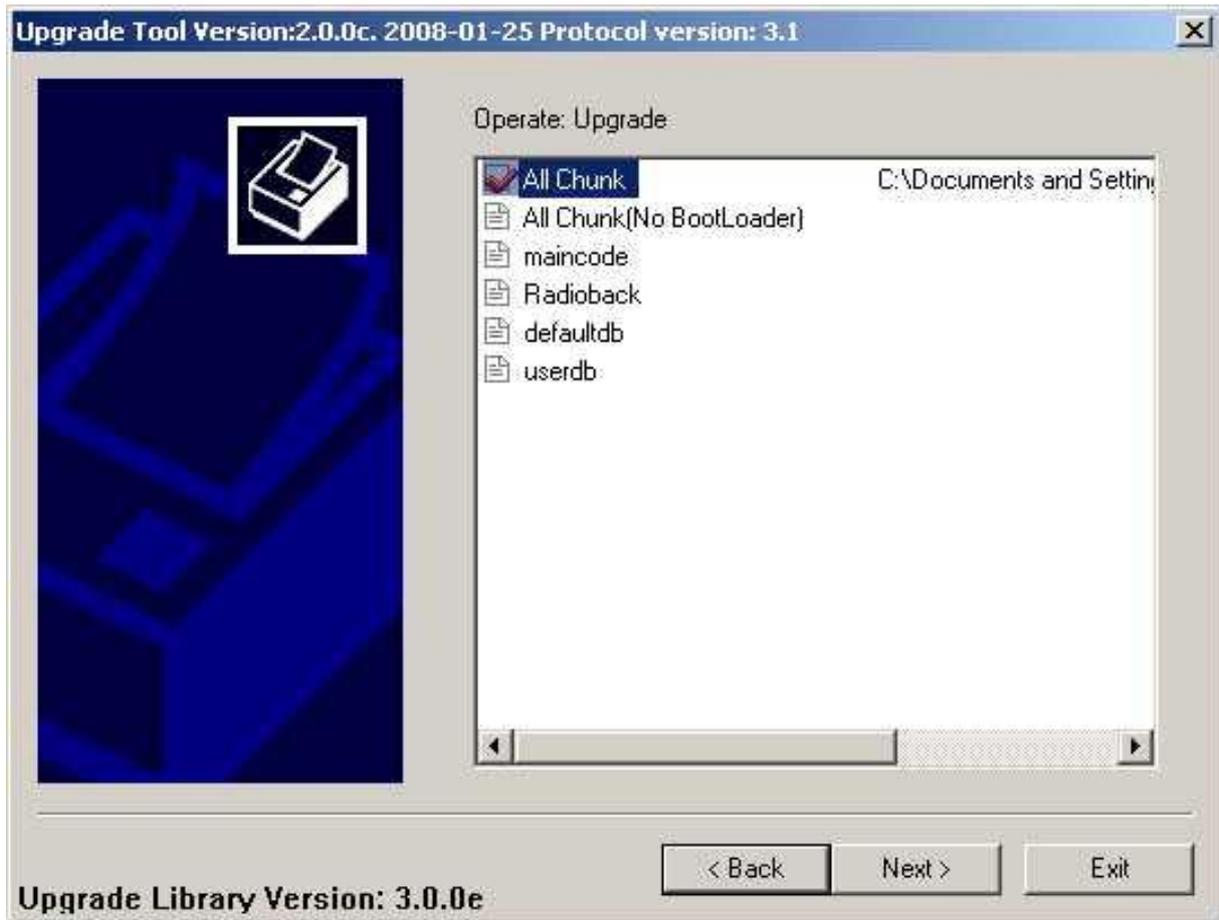
10.Download will start automatically (Download All Chunk)
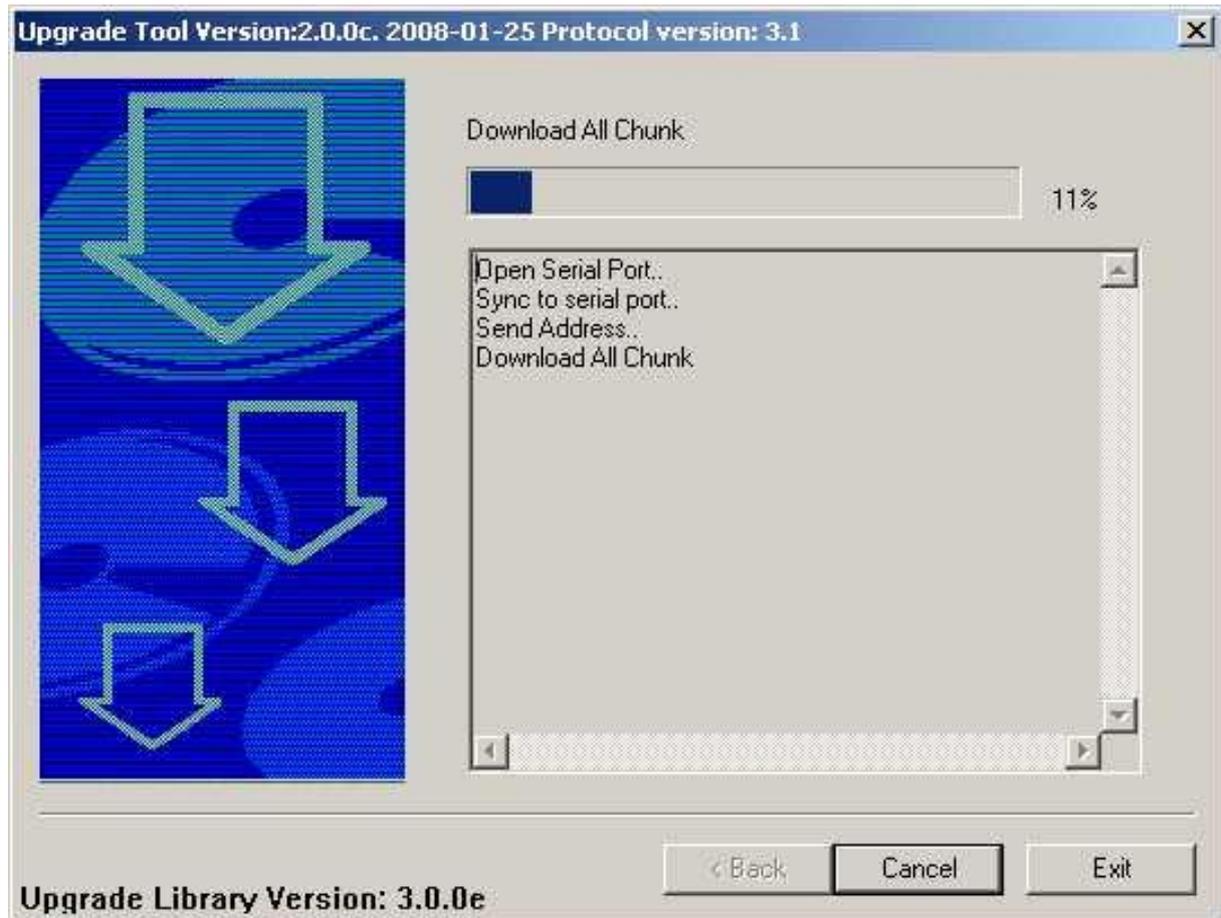
11.After downloading receiver will burn new sw to Flash memory

WARNING!!!
DO NOT DISCONNECT RECEIVR FROM POWER SUPPLY DURING BURNING!!!
IT WILL DAMAGE RECEIVER!
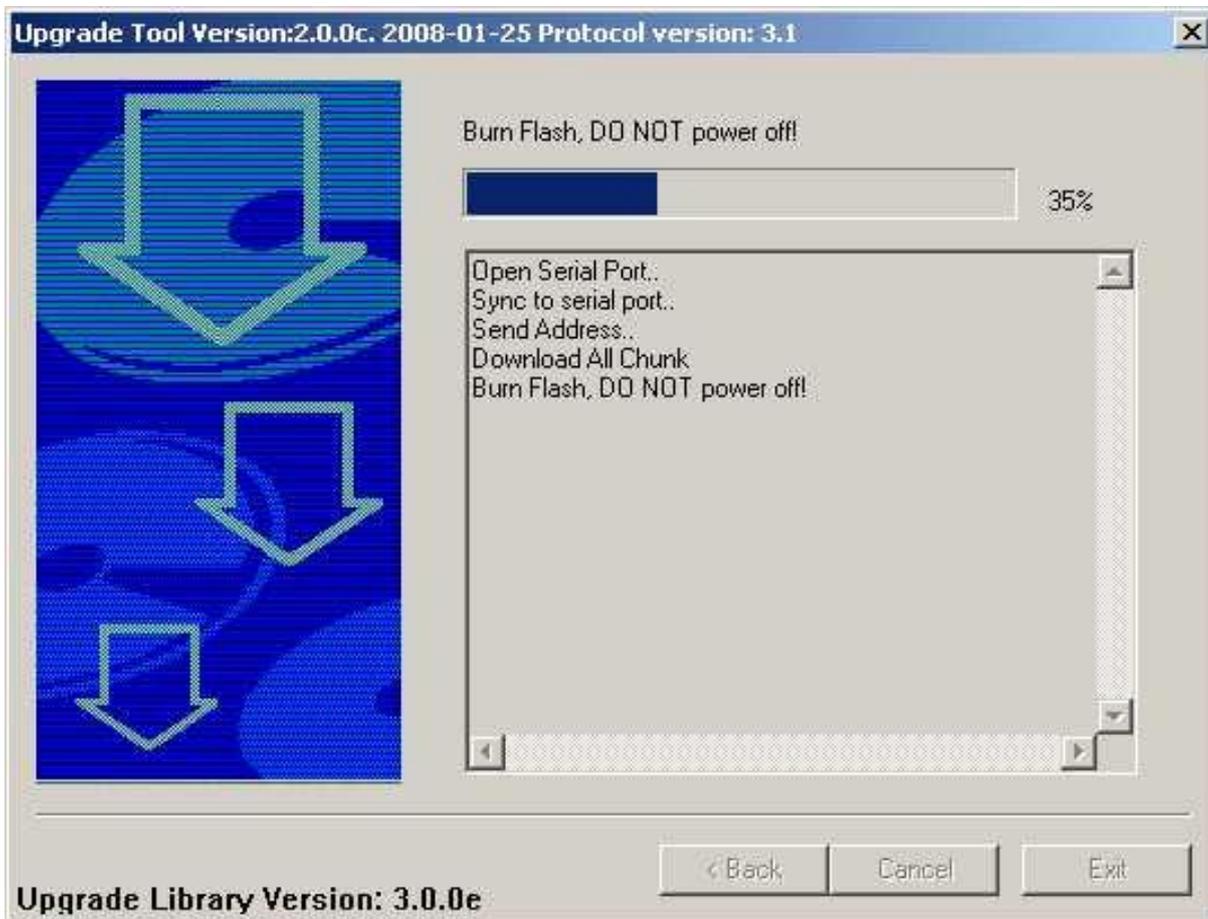
12.After finishing whole download process there will be message :"Upgrade success",
You can safely disconnect receiver.
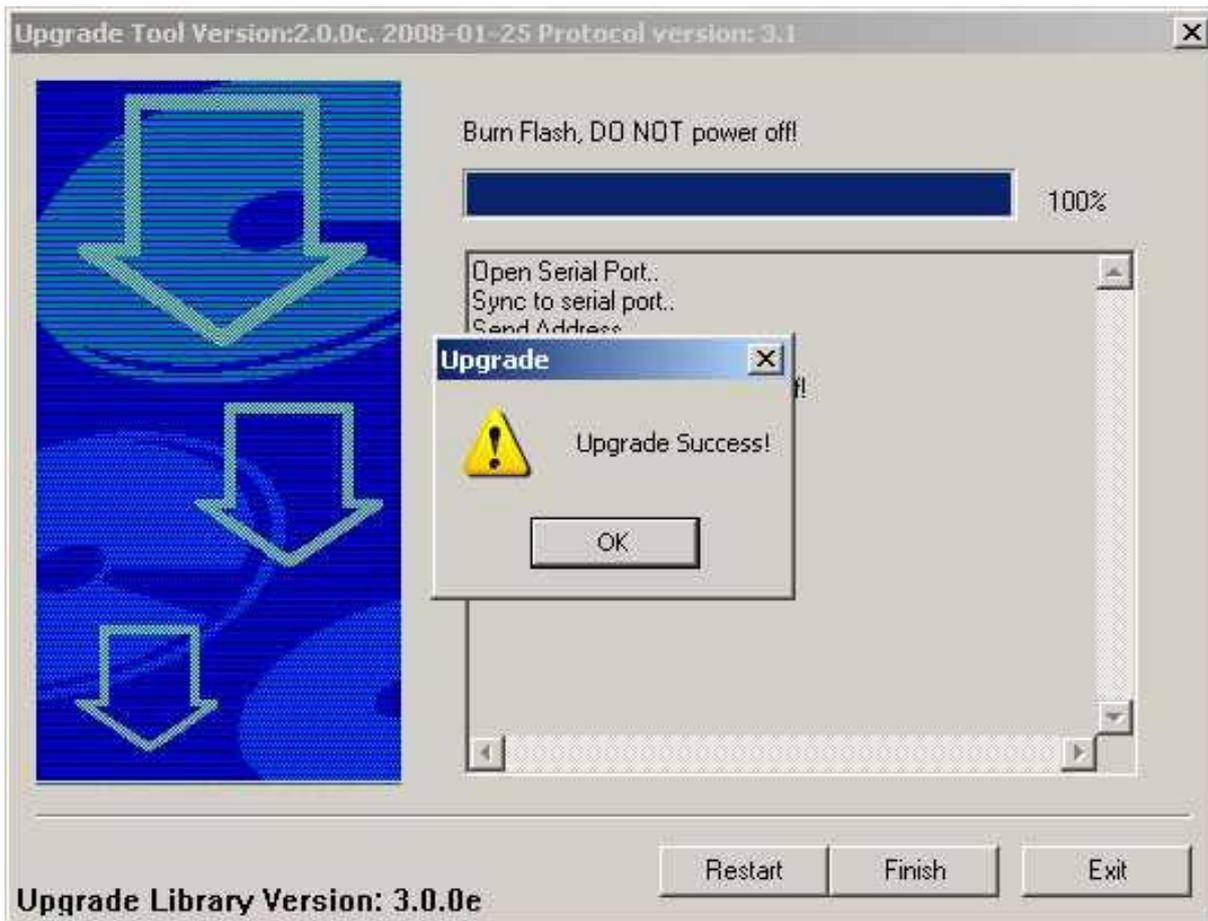
13. Press *Finish* to close the program. Press *Restart* If you want to program another receiver

Upgrade Tool Version:2.0.0c. 2008-01-25 Protocol version: 3.1

Burn Flash, DO NOT power off!

100%

Open Serial Port..
Sync to serial port..
Send Address..
Download All Chunk
Burn Flash, DO NOT power off!

| Restart | Finish | Exit |

Upgrade Library Version: 3.0.0e