

# Operating Instructions

## DTR 1520/2 Serial Software Update Tool

**Requisites:**

Required components (hardware / software):

- Windows-PC
- Serial 9-pin RS232 „null modem“ cable (female – female)
- Loader-Software „DTR1520-2Loader.zip“
- Update-Software „DTR1520-2\_V####.zip“

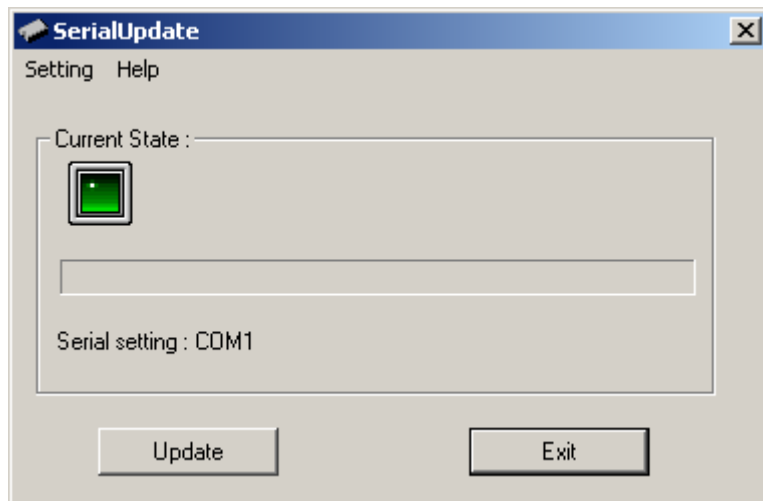
**Installation:**

Please copy the ZIP-archive to an empty directory and extract all files.  
(The loader-executable has to be started from within this directory).

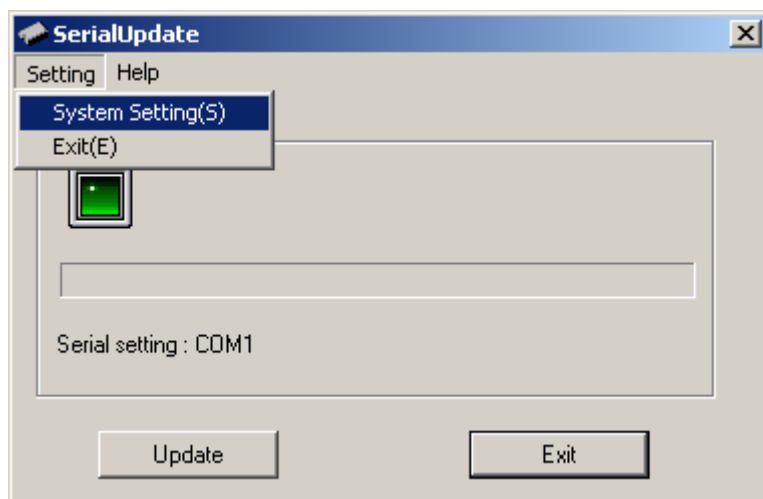
**Update Procedure:**

Power-off the DTR 1520/2 (mains switch) and disconnect all cables (Antenna, TV, VCR, ... ).  
Connect PC and DTR 1520/2 using the RS232 cable described above.

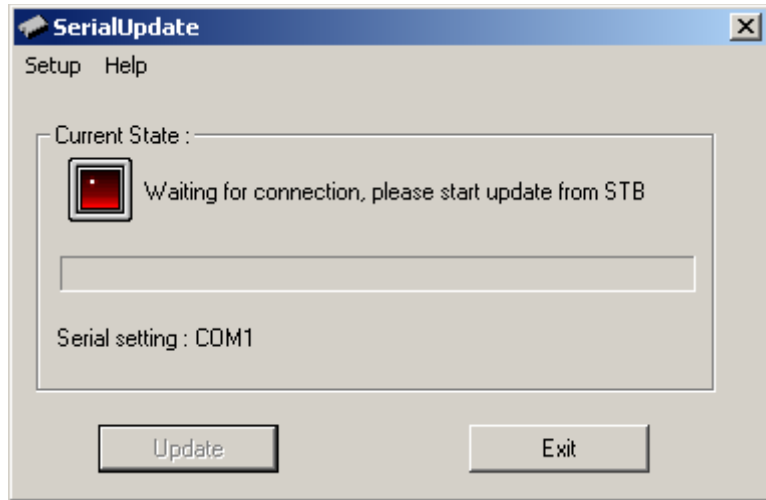
Start the loader-executable  
„SerialUpdate.exe“.



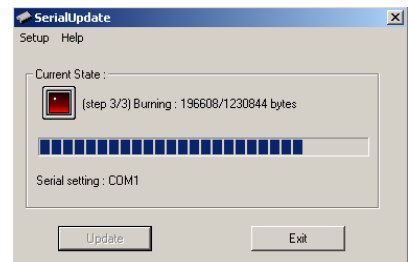
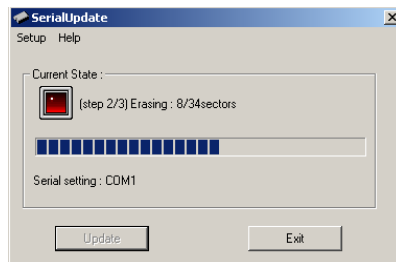
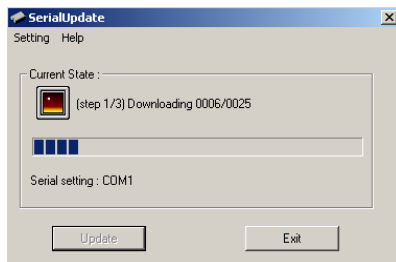
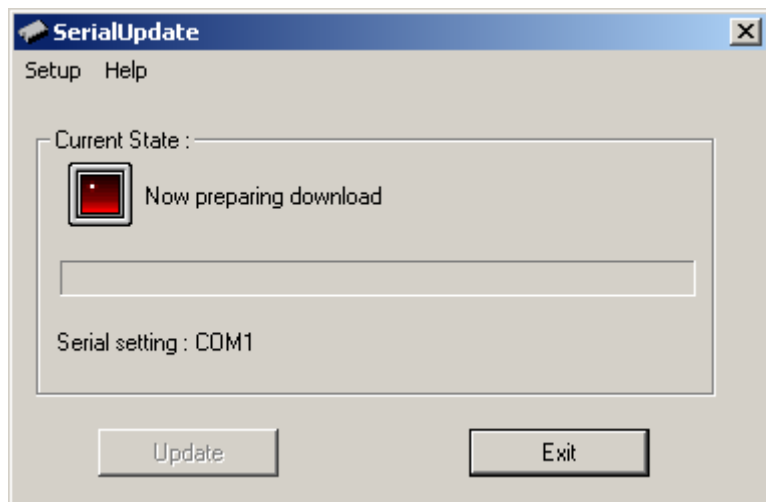
Select the serial port of the  
STB connection  
(default: COM 1):



Start the update by activating the button <Update>:



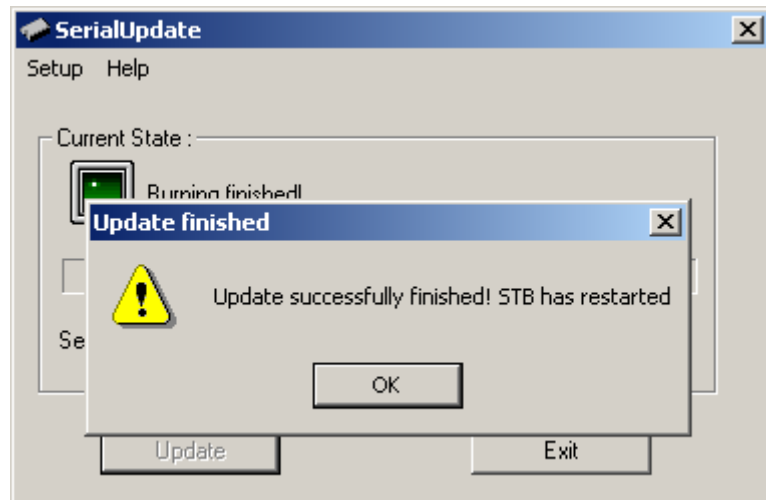
Power-up the DTR 1520/2 (mains switch), and the software update will start immediately:



- 1) Downloading the new software to the STB
- 2) erasing the FLASH-memory
- 3) writing the new software to FLASH

At the end of the update procedure the STB will reboot automatically.

Now close the „Update finished“ pop-up (mouse-click on <OK>) and exit the download program (activate <Exit>).



Disconnect the STB from the mains and finally also disconnect the RS232 cable.

**Important note:**

**Please do not switch off the DTR 1520/2 before the message „Update successfully finished“ is displayed! Following a premature interrupt of the update procedure the DTR 1520/2 may be inoperable!**

For additional information please contact the Grundig customer service.

Your Grundig Team