



IMPORTANT NOTE: In order to update the DVB 310 modules, you need to have a v3.0.30 or higher version. In case of having a before version, please contact sat@ftemaximal.com.

DVB 310 firmware upgrade from PRO 201

- Necessary material:

- PRO 201 with 1.8.15 version or subsequent;
- SD card in FAT 16;
- Last firmware version for module;
- PC;

- Previous steps:

- Download last firmware version available for your module. You can find at: <http://www.ftemaximal.com/ingles/firmware.php>
- Unzip the file downloaded from the web site in the “Programs” folder of the SD card. It contains:
 - HEADEND.upg

- Upgrading:

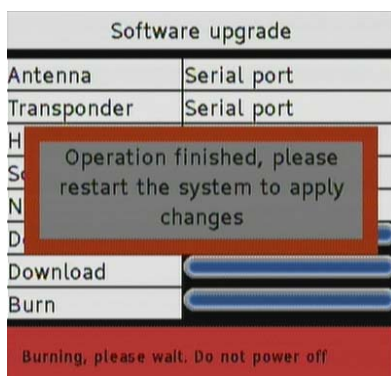
1. Before introducing the SD card in the PRO 201, it is necessary to introduce the updating files in the *Programs* folder of the SD card, and then to connect the PRO 201 with the SD card already inside.
2. Once started, select *Manual* from the main menu.

```
DVB 310-T VSB CI
< Manual > TV Mode
Auto      V-3.0.31
```
3. Move to *Updating* option with the cursors ▼▲ .

```
DVB 310-T VSB CI
Delete
Search
>Update
```
4. By pressing “OK” three options will appear: Download updated SW (Updating of the DVB module with the software version of the programmer) / receiving updated SW (we have to send the application, and then keep the software version of the DVB module in the programmer) / DVBUS mode. Press **OK** on option *download software update*

```
DVB 310-T VSB CI
>Download Update SW<
Receive Headend SW
DVBUS mode:  SLAVE
```

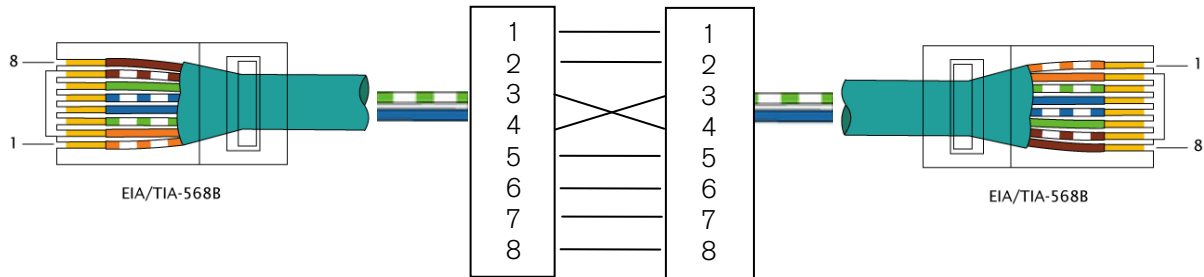
```
Software upgrade
Serial port (Download)
Serial port (Upload - APP)
▲ Move Line  OK Confirm
▼           Cn Cancel
```



Updating of several DVB 310 modules at the same time

- Necessary material:

- DVB 310 module with the last firmware installed
- PRO 201 with 1.8.15 version or subsequent
- Straight cable RJ 45 – RJ 45 according with the standard EIA/TIA-568B. Cross pairs 3 and 4, as it is shown in the following image:



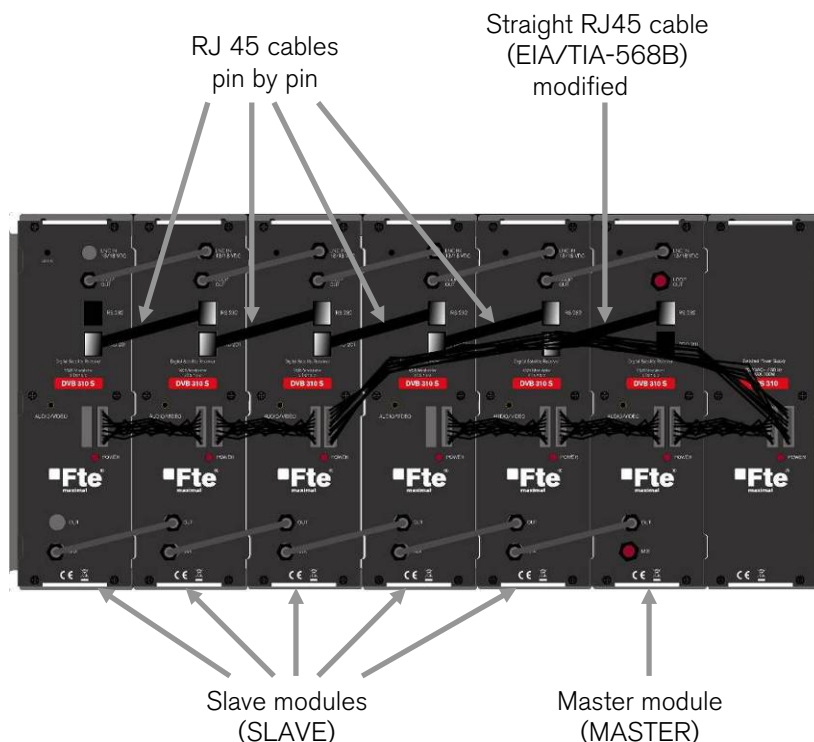
- Previous steps:

- Updating with PRO 201 the module that will be used as master receiver later, following the steps described in the section *"DVB 310 firmware upgrade from PRO 201"* of this user's guide.

NOTE: The module who plays as MASTER, that is, the one who has the latest firmware installed, has to be in an extreme of the BUS that connects all the modules.

- In order to update several DVB 310 modules at the same time, we need them to be connected through the connectors called RS 232 and PRO 201 with a RJ 45 – RJ 45 cable pin by pin, which is provided with the modules.
- Please replace the RJ 45 – RJ 45 cable point by point, which goes from the module with the latest firmware up to the following module, through the straight RJ 45 – RJ 45 cable previously described.

The connection of the modules will be as shown in the picture below, there is no limit in the number of modules that can be updated at the same time:



- Upgrading:

1. Please connect the programmer into the RS 232 or PRO 201 connectors of the master module, which is already updated.
2. Once started, select *Manual* from the main menu.

```
DVB310-S VSB
< Manual > TV Mode
Auto      V-3.0.31
```

3. Move to *Updating* option with the cursors ▼▲.

```
DVB310-S VSB
Delete
Search
>Update
```

4. With the cursors ▼▲ move up to the option *DVBUS Mode*. With the cursors ◀▶ select *MASTER*. This way we point out that this receiver will be used as master in order to send the software version to the rest of modules connected to BUS.

```
DVB310-S VSB
Download Update SW
Receive Headend SW
>DVBUS mode: MASTER
```

```
Software upgrade
Serial port (Download)
Serial port (Upload - APP)
DVBUS mode: MASTER
Move Line OK Confirm
Change Value Cn Cancel
```

5. Press *OK* in order to confirm. The module will be waiting until the programmer is disconnected in order to start the software loading into the rest of modules

```
DVB310-S VSB
MASTER mode
Please disconnect
programmer
```

6. Disconnect the cable that connects the programmer with the MASTER module. The software loading into all the slave modules will start at this moment. The led *STATUS* will change intermittently from red to green in all the modules connected to the BUS, and in the *AUDIO/VIDEO* output of the module MASTER you will see the following message:

```
Working. Please wait...
```

7. The process will end when the *STATUS* leds of the modules become fixed again. In the *AUDIO/VIDEO* output of the master module the previous message will disappear. At this point all the modules connected to the BUS will be updated with the latest version.