



## Serializing DGT USB Electronic Chess Board

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### Purpose

DGT USB Electronic Chess Boards leave the factory in such configuration, that Windows will not accept more than one USB Electronic Chess Board on one computer. When multiple boards on one computer are needed, the boards need to get a unique USB serial number (Which is a hidden number, and not the serial number of the board) The below procedure describes the necessary steps.

### Overview

The USB Electronic Chess Board uses a USB to Serial device from FTDI. In the below procedure, many drivers and utilities from the website of FTDI are used.

To write unique USB serial numbers to the board the following steps have to be made

1. Download some utilities and drivers from FTDI website
2. Uninstall the current FTDI USB serial converter drivers
3. Install the latest drivers for the board (that come from [www.ftdichip.com](http://www.ftdichip.com))
4. Run a utility MPROG (that comes from [www.ftdichip.com](http://www.ftdichip.com)) and write unique serial numbers in the chess boards

### Detailed procedure

#### Step 1. Preparation and download software

Download and install the latest and suitable drivers from

<http://www.ftdichip.com/Drivers/VCP.htm>

In the below procedure it is assumed that the Driver Version 2.00.00 is used, date 19<sup>th</sup> May 2006. The drivers are packed in a ZIP archive. When you do not have a suitable unpacker, use i.e. the IZArc from [www.izarc.org](http://www.izarc.org)

Unpack the drivers to a directory, i.e. c:\CDM 2.00.00

Also install the application MPROG from the FTDI utilities page

<http://www.ftdichip.com/Resources/Utilities.htm#MProg>

Open the setup file and follow the instructions.

#### Step 2: Uninstall current FTDI drivers

Unplug all DGT USB Electronic Chess Boards.

Open the computer configuration screen via the Windows START button. Select Software, and wait until the list is created.

Now find the "FTDI USB serial converter drivers" item, click the Remove button.

If the removing does not succeed, use the FTClean utility from here:

<http://www.ftdichip.com/Resources/Utilities.htm#ftclean>

#### Step 3. Install the new drivers.

Choose and open the driver installation guide from

<http://www.ftdichip.com/Documents/InstallGuides.htm>

In general: Plug in the DGT USB Chess Board, and wait for the “Found New Hardware Wizard”. Instruct the wizard to find the downloaded 2.00.00 drivers, by instruction of the above installation guide.

**Step 4:** Write new USB serial numbers.

Now start MPROG and open the MPROG Manual from here:

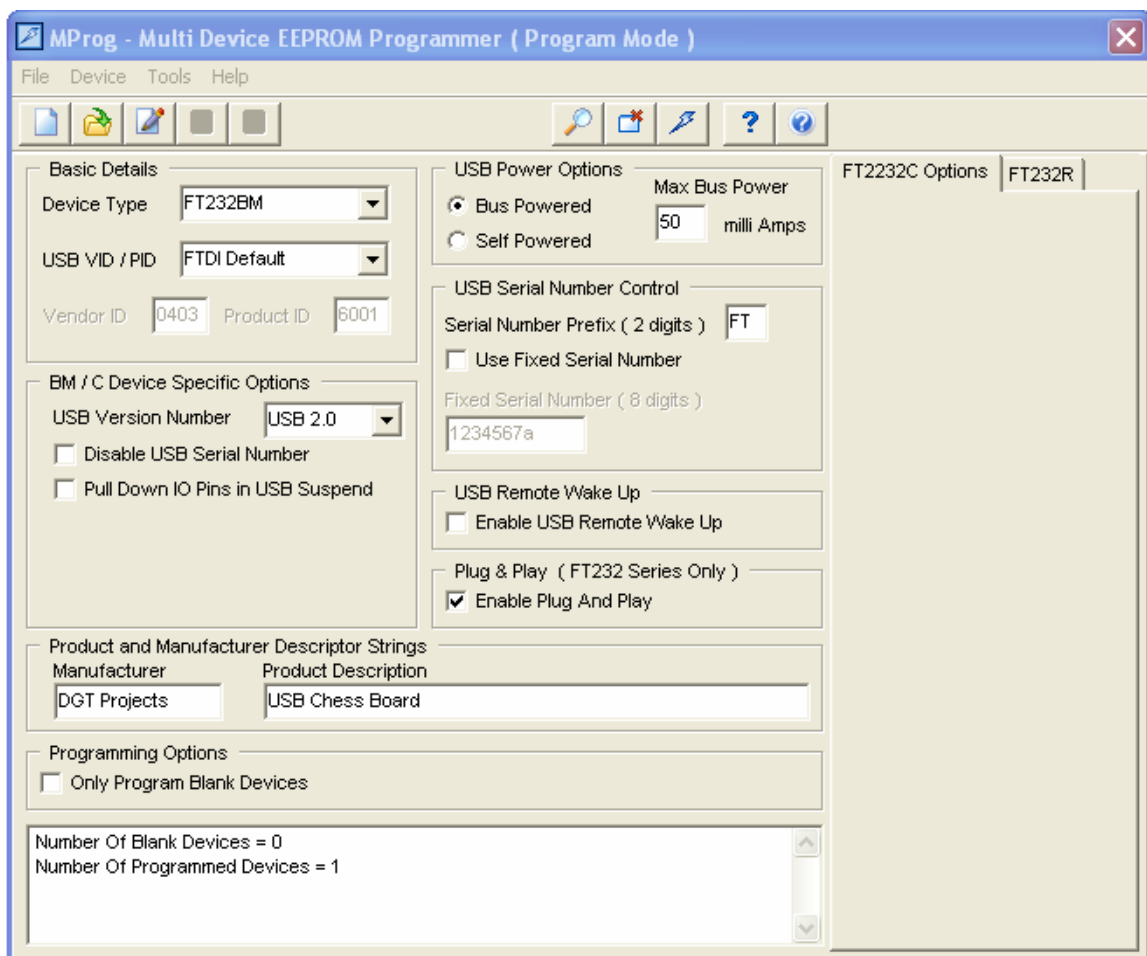
<http://www.ftdichip.com/Resources/Utilities/MProg.pdf>

Check that the file “MPROG DGT USB Board.ept” is on your computer.

In MPROG, Select the menu item FILE>OPEN and open the file “MPROG DGT USB Board.ept”

For every board do the following:

Then select the menu item Device>Scan. The MPROG window will look like this:



Now select menu item Device>Program. A unique serial number is generated by MPROG and written in the Chess Board.

Now unplug the board, and plug in the next board that needs to be serialized. Step back to the above line “**For every board do the following:**”

Exit MPPROG.

Now all serialized boards can be connected to the computer. For each a separate Virtual COM port is created.