

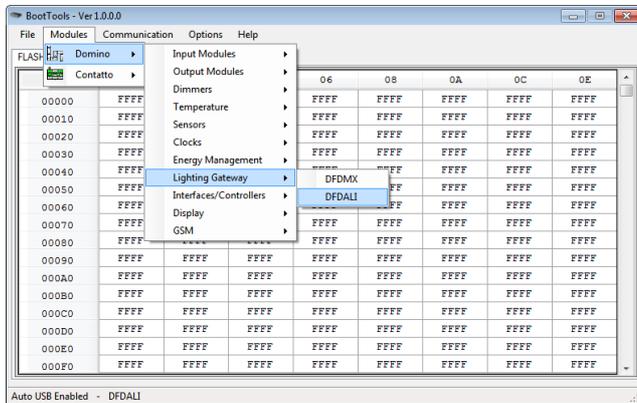
BootTools – Firmware updating for Domino – CONTATTO module

Introduction

BootTools is the new universal software for the firmware upgrading of **Domino** and **CONTATTO** modules. The supported interfaces between the PC and the field are: **DFRS**, **DFUSB**, **DFPRO**, **WEBS** and **DFCP**, for **Domino** BUS, and **MCPXT** for **CONTATTO** BUS. The **DFWEB** module **CAN NOT BE** used like interface for the firmware update of the **Domino** modules. **DFRS**, **DFUSB**, **DFPRO**, **DFGSM3**, **MODGSM3**, **DFCP** and **MCPXT** modules, as well as **FXPRO2**, can be upgraded by the same program directly through their serial port RS232 or USB.

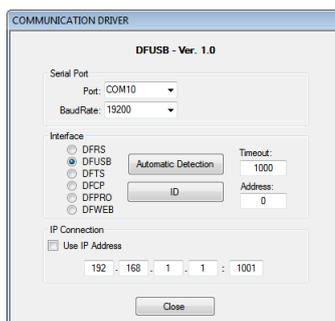
Firmware updating of Domino and CONTATTO through the BUS

For **Domino**, select the name of the module to be updated from the menu “**Modules**”, like in the following figure:



As shown, the modules have been grouped according to the BUS type and the function, therefore, depending on the module to be updated, select from the “**Modules**” menu the BUS and the function. For instance, to update the firmware of “**DFDALI**” module, select the item “**Domino**”, then “**Lighting Gateway**” and finally “**DFDALI**”. At this point open the .HEX file related to the desired firmware. Attempting to open a .HEX file not related to the selected module, the program will report an error message.

The next step is the opening of the serial communication between the PC and the field interface. Connect the PC to one of the following interfaces/controllers: **DFRS**, **DFUSB**, **DFPRO**, **DFWEB** or **DFCP** and select, from the menu “**Communication**” the item “**Enable communication**”. The following window will be shown:



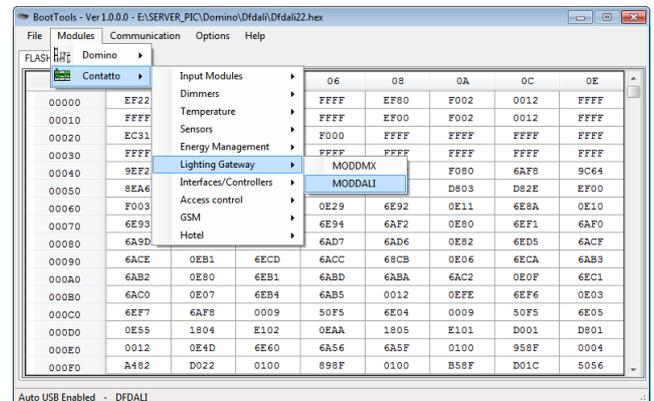
Select the serial port of the PC to which the field interface has been connected and then select the Baud Rate; as option, select “**Automatic Detection**”. Once the communication has been opened, click on the button “**Close**”.

At this point, open the programming window selecting “**Communication**” and then “**Programming**”. For **Domino** BUS, the following window will be shown:

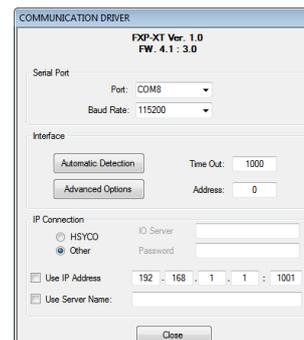


Enter the address of the module to be updated and then click on the button “**Program**”. If the module having the entered address correspond to the selected module and firmware file, then the program will begin the updating; on the contrary, an error message will be shown. To stop the updating before the end, click on the button “**Cancel**”. The button “**ID Ver**” allows to check the ID code and the firmware version currently loaded into the selected module (if this function is available for that module). Once the firmware updating is finished, click on the button “**Close**”.

A similar procedure applies to **CONTATTO** modules: select the desired module (e.g. **MODDALI**) as in the following figure:



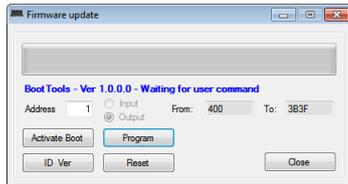
As described for **Domino** BUS, select the module of family **CONTATTO** (e.g. **MODDALI**) and open the related .HEX file. Open the serial communication from menu “**Communication**” and then “**Enable communication**”; for **CONTATTO** modules the field interface can be **MCPXT** only. The following window will be shown:



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Select the serial port of the PC to which the field interface has been connected and then select the Baud Rate; as option, select **“Automatic Detection”**. Once the communication has been opened, click on the button **“Close”**.

At this point, open the programming window selecting **“Communication”** and then **“Programming”**. For CONTATTO BUS, the following window will be shown:



Enter the address of the module to be updated and then click on the button **“Activate Boot”**. The program will check if some modules on the bus are already waiting for firmware updating and, if not, it will prepare the selected MOD-DALI module to receive the new firmware; if this procedure is successfully executed, then **“Bootloader ready”** will be shown, on the contrary an error message will be reported.

Click on the button **“Program”** to start updating; at the end, a message reporting the module name and its new firmware version will be shown, or an error message will be displayed if some problems occurred.

The button **“ID Ver”** allows to check the ID code and the firmware version currently loaded into the selected module. The button **“Reset”** allow resetting the module (if needed, this action is automatically performed at the end of updating). Once the firmware updating is finished, click on the button **“Close”**.

Firmware updating of DFRS, DFUSB and DFPRO devices

To upgrade the firmware of **DFRS**, **DFPRO** and **DFUSB**, a procedure similar to that one described before for **Domino** modules has to be applied, but these module do not need any address.

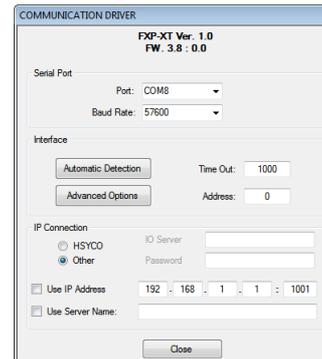
The programming window will be the following:



Firmware updating of DFTOUCH module

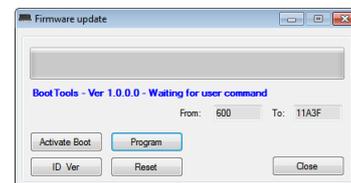
The firmware updating of **DFTOUCH** module does not need any field interface and the PC must be connected directly to it. For **DFTOUCH** updating, the special cable named **CVXT** connected to the blue connector on the rear side must be used.

After having selected **DFTOUCH** and opened the desired firmware file, open the communication selecting from main menu **“Communication”** and then **“Enable communication”**. The following window will be shown:



Select the serial port of the PC to which **DFTOUCH** has been connected and then select the Baud Rate; as option, select **“Automatic Detection”**. Once the communication has been opened, click on the button **“Close”**.

At this point, open the programming window selecting **“Communication”** and then **“Programming”**; the following window will be shown:



The updating of **DFTOUCH** module does not need any address, therefore click on the button **“Activate Boot”** and then **“Program”** to start updating; at the end, the program will automatically reset the module.

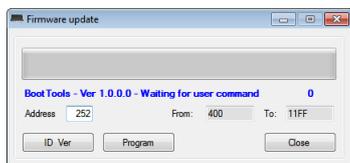
The button **“ID Ver”** allows to check the ID code and the firmware version currently loaded into **DFTOUCH**. The button **“Reset”** allow resetting the module (if needed).

Firmware updating of DFTOUCH2 module

Firmware updating of **DFTOUCH2** module it's performed via BUS and requires one of the following communication interfaces: **DFUSB**, **DFRS**, **DFPRO** or **DFCP**.

Once the communication with the desired communication interface has been opened recall the programming window selecting **“Communication”** and then **“Programming”**. The programming window will be the following:

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The DFTOUCH2 module has not physical address on bus therefor the procedure for the firmware updating must be activated by the touch panel. Click on the icon  in the special page “*sysconf*”.

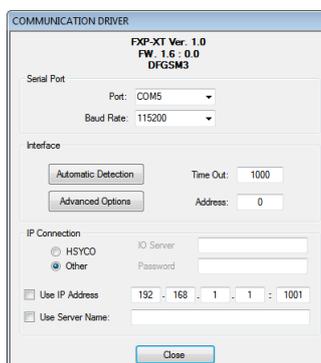
After the user had clicked on the icon there are 10 seconds to start the firmware update procedure, then click on the button “*Program*” to start firmware updating. The bus address is not necessary.

It is not possible check the ID and firmware revision of the module, using the button “*ID Ver*”, because the module haven’t an address on the BUS.

Firmware updating of DFGSM3 module

The updating of *DFGSM3* module is performed by the USB port on its front panel.

After having selected *DFGSM3* and opened the desired firmware file, open the communication selecting from main menu “*Communication*” and then “*Enable communication*”. The following window will be shown:



Select the serial port of the PC to which *DFGSM3* has been connected and then select the Baud Rate; as option, select “*Automatic Detection*”. Once the communication has been opened, click on the button “*Close*”.

At this point, open the programming window selecting “*Communication*” and then “*Programming*”; the following window will be shown:



The updating of *DFGSM3* module does not need any address, therefore click on the button “*Activate Boot*” and then “*Program*” to start updating; at the end, the program will automatically reset the module.

The button “*ID Ver*” allows to check the ID code and the firmware version currently loaded into *DFGSM3*. The button “*Reset*” allow resetting the module (if needed).

Firmware updating of MOSGSM3 module

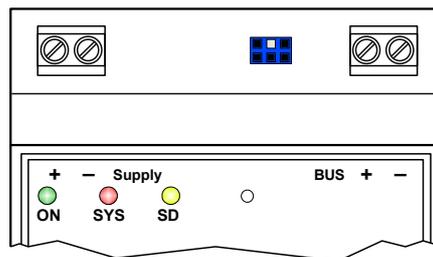
MODGSM3 module features 2 microcontrollers, the first one named “*MODGSM3 MAIN CONTROLLER*” and the second one named “*MODGSM3 BUS CONTROLLER*”. The updating of the first one (MAIN) is similar to the procedure explained for *DFGSM3*, while the second one must be updated via BUS using *MCPXT* as field interface.

The second microcontroller is thus seen like a generic *CONTATTO* module and therefore its address must be entered before to execute the updating. For more details, see the previous paragraphs.

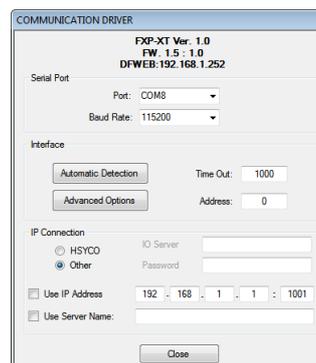
Firmware updating of DFWEB module

DFWEB module features 2 microcontrollers, the first one named “*DFWEB MAIN CONTROLLER*” and the second one named “*DFWEB BUS CONTROLLER*”.

For the updating of the first one (MAIN), use the cable named *CVXT* connected to the blue connector on *DFWEB* as shown in the following figure:



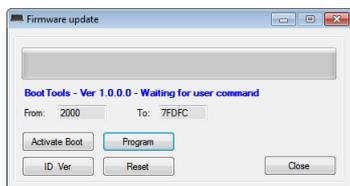
After having selected the module and opened the desired firmware file, open the communication selecting from main menu “*Communication*” and then “*Enable communication*”. The following window will be shown:



Select the serial port of the PC to which *DFWEB* has been connected and then select the Baud Rate; as option, select “*Automatic Detection*”. Once the communication has been opened, click on the button “*Close*”.

At this point, open the programming window selecting “*Communication*” and then “*Programming*”; the following window will be shown:

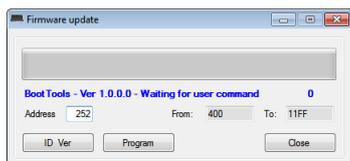
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The updating of **DFWEB** main controller does not need any address, therefore click on the button "**Activate Boot**" and then "**Program**" to start updating; at the end, the program will wait for the reinitialization of **DFWEB** (10 seconds about), then the new firmware version and the IP address of the module will be shown.

The button "**ID Ver**" allows to check the ID code and the firmware version; the button "**Reset**" allow resetting the module (if needed).

To update the "**DFWEB BUS CONTROLLER**" of **DFWEB** module, use **DFUSB**, **DFRS**, **DFPRO** or **DFCP** as field interface. Once opened the communication with the interface, open the programming window selecting "**Communication**" and then "**Programming**"; the following window will be shown:



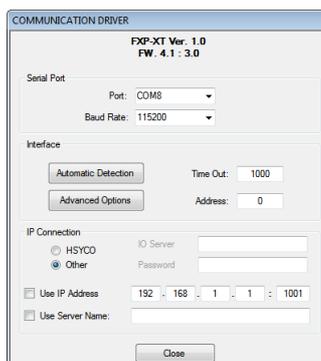
Enter, as address, the last group of number of IP address assigned to **DFWEB**. For instance, if the IP address of the module is 192.168.1.252, then the value to be entered as address will be 252.

NOTE 1: *DFWEB module does not take any address on the Domino bus; the last 3 digits of the IP address represent an "identifier" allowing to execute the firmware updating via bus and some other functions.*

Firmware updating of WEBS module

To update **WEBS** module use **DFCP** or **MCPXT** as field interface, depending on the installed BUS.

After having selected the module and opened the desired firmware file, open the communication selecting from main menu "**Communication**" and then "**Enable communication**". The following window will be shown:



Select the serial port of the PC to which the field interface has been connected and then select the Baud Rate; as option, select "**Automatic Detection**". Once the communication has been opened, click on the button "**Close**".

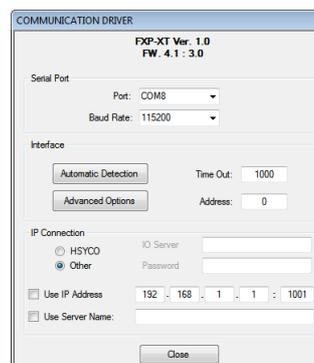
At this point, open the programming window selecting "**Communication**" and then "**Programming**"; the following window will be shown:



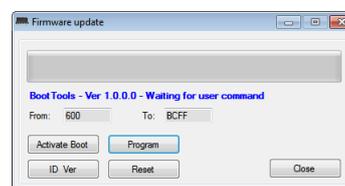
The updating of **WEBS** module does not need any address, therefore click on the button "**Activate Boot**" and then "**Program**" to start updating; at the end, the program will wait for the reinitialization of **WEBS** (10 seconds about), then the new firmware version and the IP address of the module will be shown. The button "**ID Ver**" allows to check the ID code and the firmware version; the button "**Reset**" allow resetting the module (if needed).

Firmware updating of MCPXT module

MCPXT module features 2 microcontrollers, the first one named "**MCPXT MAIN CONTROLLER**" and the second one named "**MCPXT BUS CONTROLLER**". For updating of the first one (MAIN) connect to the serial port on the front panel and open the desired firmware file. Open the communication selecting from main menu "**Communication**" and then "**Enable communication**". The following window will be shown:



Select the serial port of the PC to which **MCPXT** has been connected and then select the Baud Rate; as option, select "**Automatic Detection**". Once the communication has been opened, click on the button "**Close**". At this point, open the programming window selecting "**Communication**" and then "**Programming**"; the following window will be shown:



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The updating of “**MCPXT MAIN CONTROLLER**” does not need any address, therefore click on the button “**Activate Boot**” and then “**Program**” to start updating; at the end, the program will automatically reset the module.

The button “**ID Ver**” allows to check the ID code and the firmware version; the button “**Reset**” allow resetting the module (if needed). To update the “**MCPXT BUS CONTROLLER**”, open the related firmware file, open the programming window selecting “**Communication**” and then “**Enable communication**”; the same window described before will be shown. Select the serial port of the PC to which **MCPXT** has been connected and then select the Baud Rate; as option, select “**Automatic Detection**”.

Once the communication has been opened, click on the button “**Close**”. At this point, open the programming window selecting “**Communication**” and then “**Programming**”; in the programming window click on the button “**Activate Boot**” and then “**Program**” to start updating. At the end, the program will reset the microcontroller.

The button “**ID Ver**” allows to check the ID code and the firmware version; the button “**Reset**” allow resetting the module (if needed).

Firmware updating of DFCP module

DFCP module features 2 microcontrollers, the first one named “**DFCP MAIN CONTROLLER**” and the second one named “**DFCP BUS CONTROLLER**” exactly as for MCPXT described before; for the updating procedure refer to MCPXT.

Firmware updating of FXPRO2 tester/Programmer

The updating of **FXPRO2** is performed by the provider special serial cable. After having selected FXPRO2 from the module list (Modules→Contatto→Interfaces/Controllers→FXPRO2) and opened the desired firmware file, open the communication selecting from main menu “**Communication**” and then “**Enable communication**”.

Select the serial port of the PC to which FXPRO2 has been connected and then select the Baud Rate; as option, choose “**Automatic Detection**”. Once the communication has been opened, click on the button “**Close**”.

At this point, open the programming window selecting “**Communication**” and then “**Programming**”; the following window will be shown:



The updating of FXPRO2 does not need any address, therefore click on the button “**Activate Boot**”: the display of FXPRO2 will show “Firmware Updating”; click then “**Program**” to start updating; at the end, the program will automatically reset FXPRO2.

The button “**ID Ver**” allows to check the ID code and the firmware version currently loaded into FXPRO2. The button “**Reset**” allow resetting the module (if needed).

Compatibility

BootTools program **does not support** the following modules:

- x **Domino** Bus
 - ✓ DFCL
 - ✓ DFSC
 - ✓ DFTS
 - ✓ DFCC
 - ✓ DFCK
 - ✓ DFCK2
 - ✓ DFGSM/DFGSM2
- x **CONTATTO** Bus
 - ✓ DISP2
 - ✓ DISP2BUS
 - ✓ MODGSM/MODGSM2