799000848 / Rev. 0 / 2018-10-31
Original additional instruction

ELGO ELECTRONIC

Additional Instructions

SERIES Z60

Software Update by using the **Flash Development Toolkit**

- Additional instruction for ELGO Z60 units
- Preparation and software update procedure
- Installation of the Flash Development Toolkit
- Configuration of the Flash Development Toolkit

Publisher ELGO Electronic GmbH & Co. KG

Carl-Benz-Str. 1
D-78239 Rielasingen-Worblingen

Technical Support +49 (0) 7731 9339 – 0
+49 (0) 7731 2 13 11

info@elgo.de

Document- No. 799000848

Document- Name Z60-FDT-Updatetool-AI-E_44-18

Document- Revision Rev. 0

Issue Date 2018-10-31

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2 General

In order to update the software of a Z60 device, the open source software "Flash Development Toolkit" is used. This manual describes all necessary steps to update the device software.

3 Save the .mot File on the Computer

The current Z60 software will be provided as a .mot file by ELGO Electronic GmbH.
After receiving the file (e. g. Z60_000_V51.mot) it must be saved on an arbitrary location on your computer.

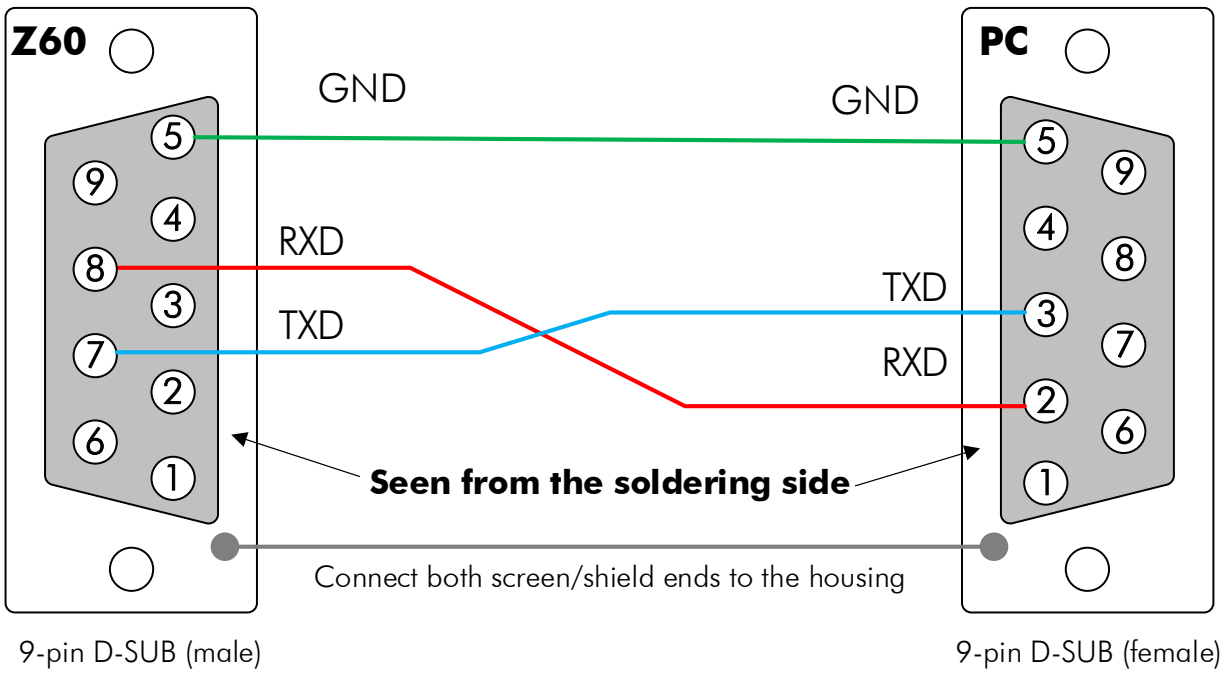
4 Preparing a Link Cable

For the update procedure, a serial connection between the Z60 unit and a PC with an already installed Flash Development Toolkit (see ☞ 5) is required. For this purpose a special cable must be configured.

To make such a link cable, the following parts are required:

- 1 male D-SUB connector (9-pin)
- 1 female D-SUB connector (9-pin)
- 1 shielded cable with 3wires

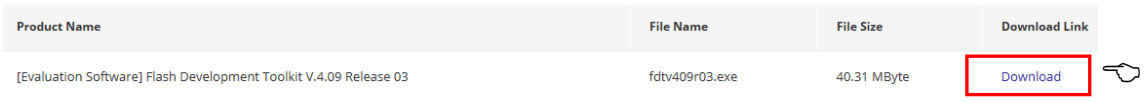
The following figure shows the pinning of the required link cable:



5 Installation of the Flash Development Toolkit

5.1 Download the Flash Development Toolkit

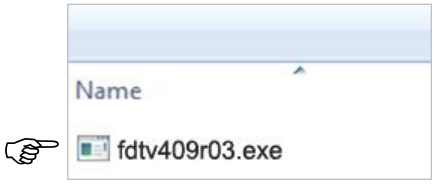
1. First use the following link >> to create an account on Renesas.com
2. Then login, agree the terms and download the actual software from https://www.renesas.com/eu/en/software/D3017335.html
   The download link can be found on the bottom of this page:

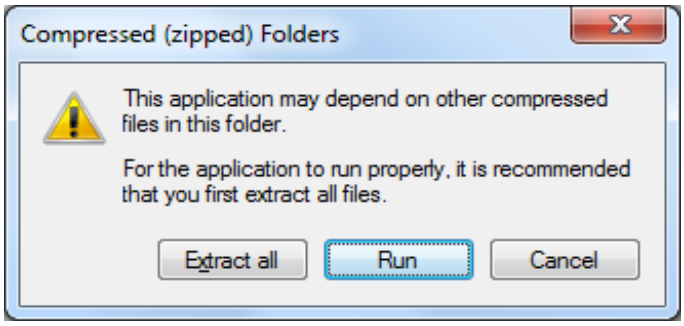


3. Save the downloaded .exe file (e. g. fdtv409r03.exe) to an arbitrary folder or location on your computer.

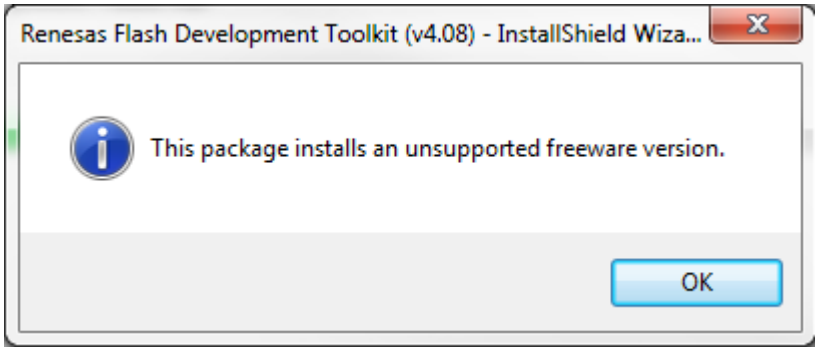
5.2 Installation of the FDT Toolkit

Open the folder where you saved the .exe file before and double-click the file:

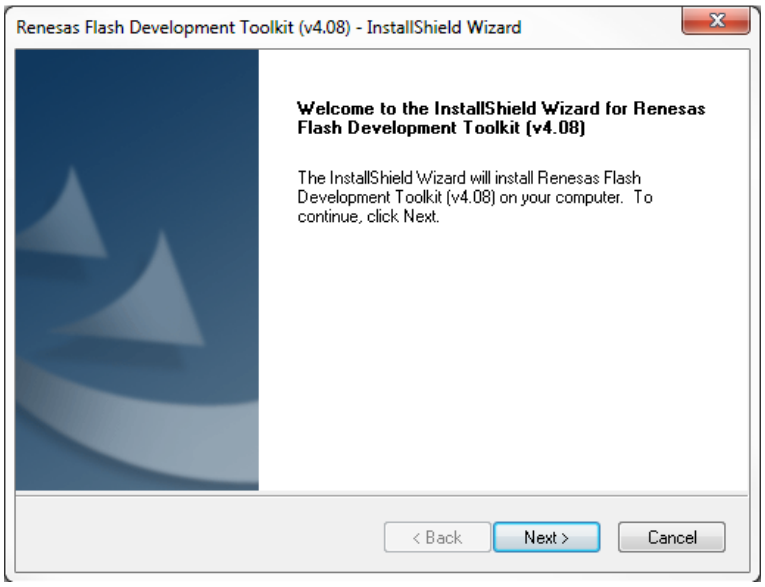




Select Run

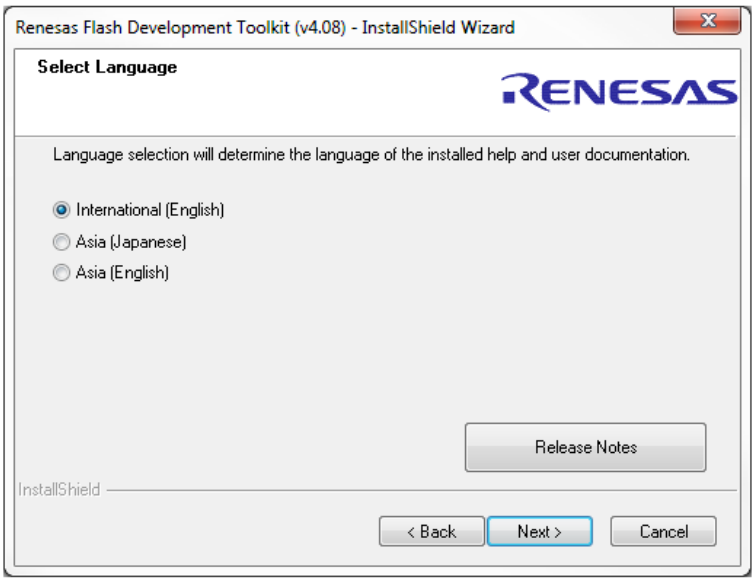


Select OK

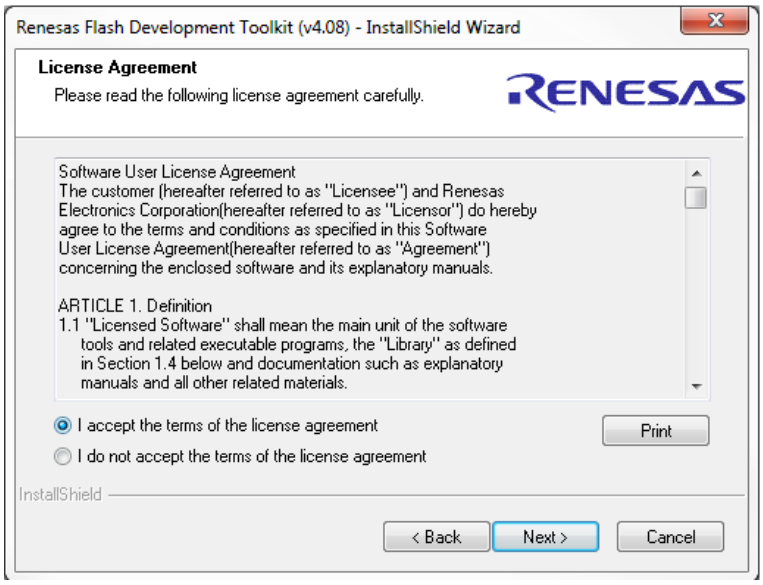


Select Next >

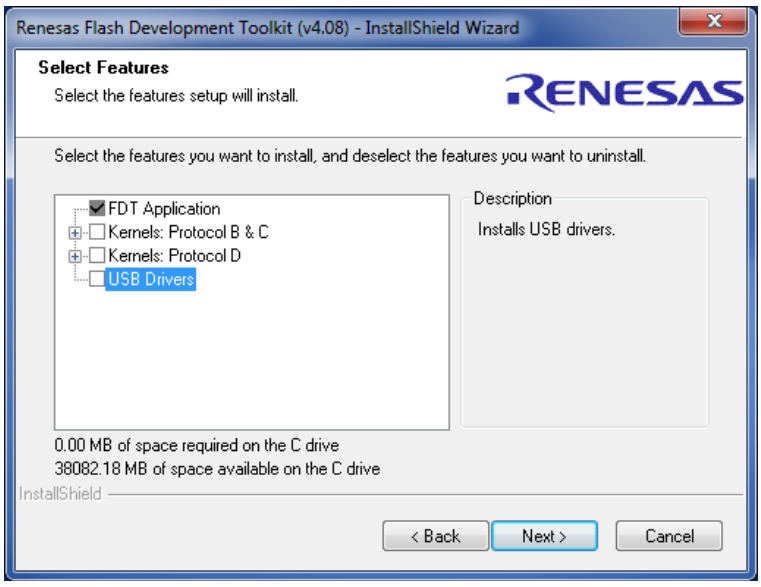
Choose the language for the installation and click Next >



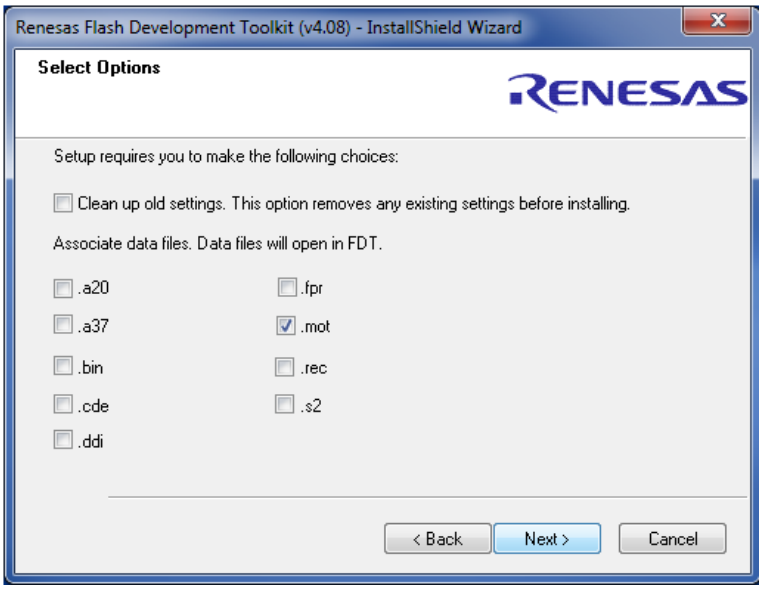
Accept the terms of license agreement and click Next >

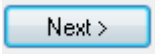


Select only the FDT Application "USB Drivers" as in the picture below:

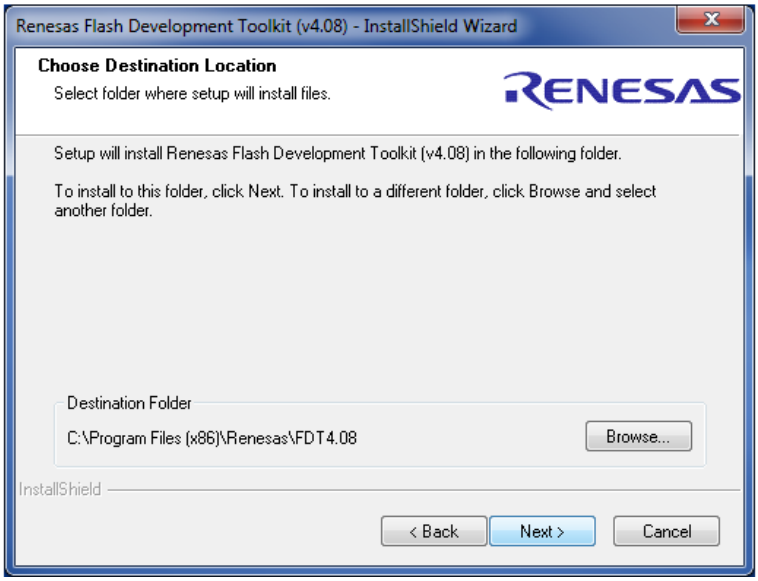


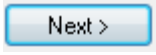
Then click Next >

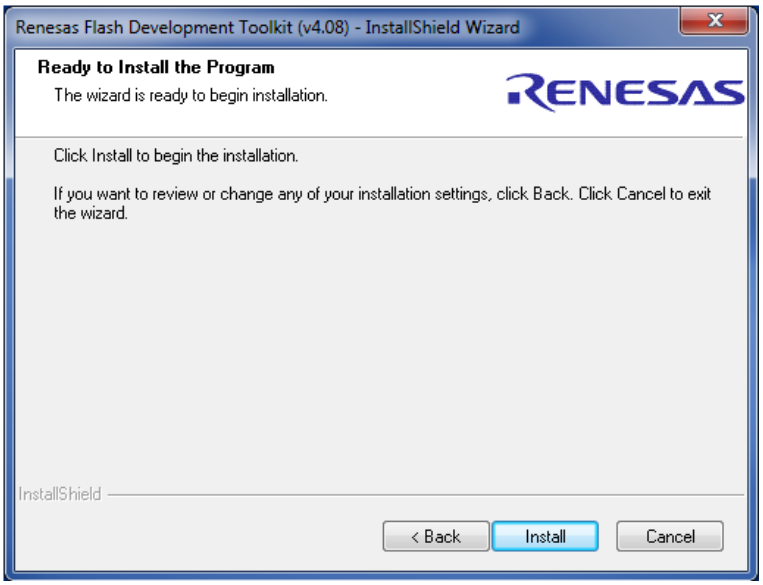


Click  again

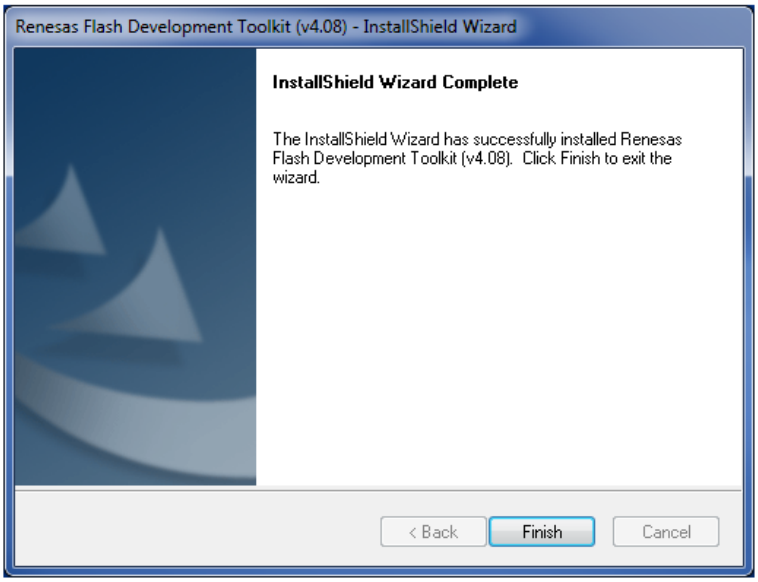
Choose the part of destination with the Browser Button:



Then click 



Select Install



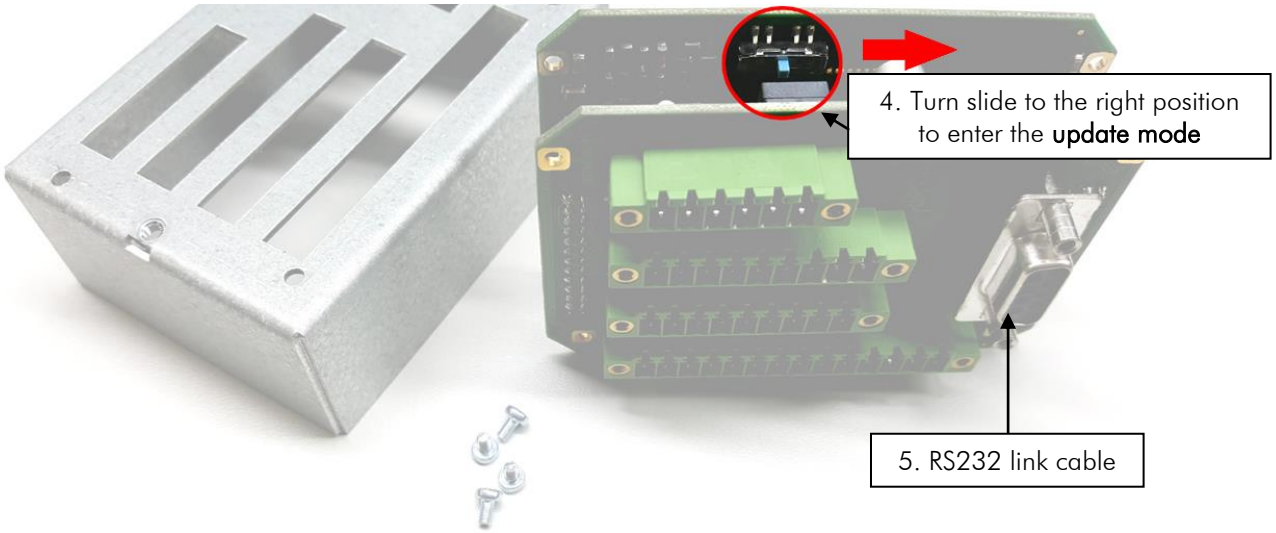
After installing click Finish

The installation of the FDT tool is finished…

6 Preparation of the Z60

6.1 Change into the Update Mode

1. Disconnect the Z60 from power resp. remove all connectors on the rear
2. Loosen the screws on the back of the Z60 housing and remove the housing
3. On the second back PCB you will find a slide switch (see figure below)
4. By changing the slider to the right position (seen from the top and back), the unit will change from normal mode to the update mode:



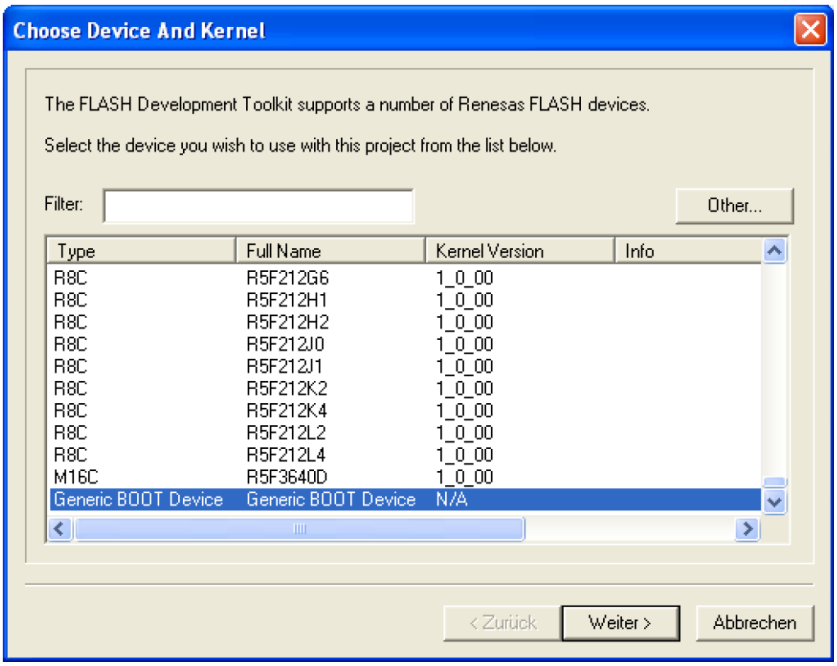
5. Then connect the Z60 device to the PC by using the link cable (described in section ☞ 4)
6. Leave the device in switched OFF status…

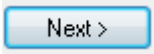
7 FDT Configuration (only for first use)

➔ Start the Flash Development Toolkit

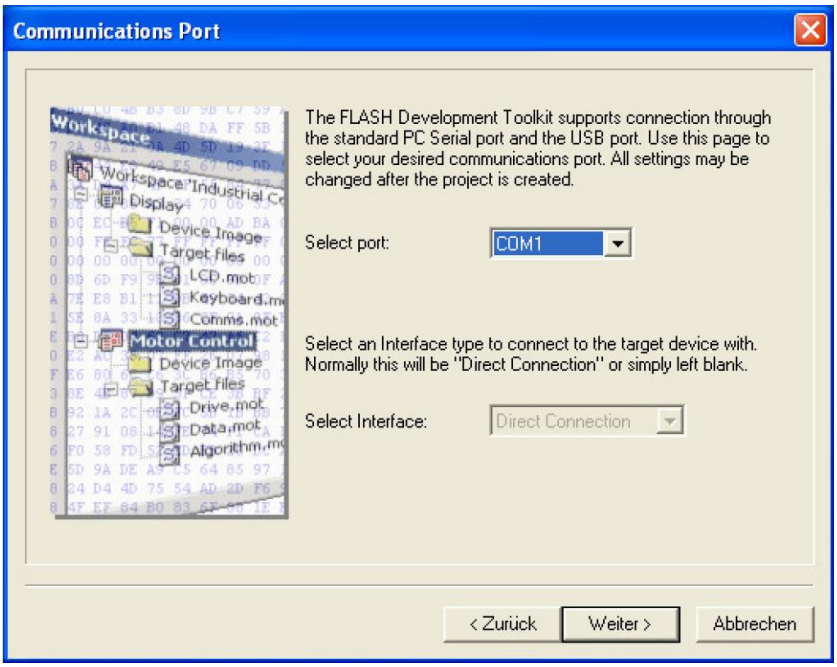
If there are two versions of FDT in the "Renesas-Folder", **only use the FDT Basic version!**

In the first dialog scroll down and choose "Generic BOOT Device"



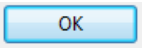
Then click 

Choose the COM-PORT of your serial interface

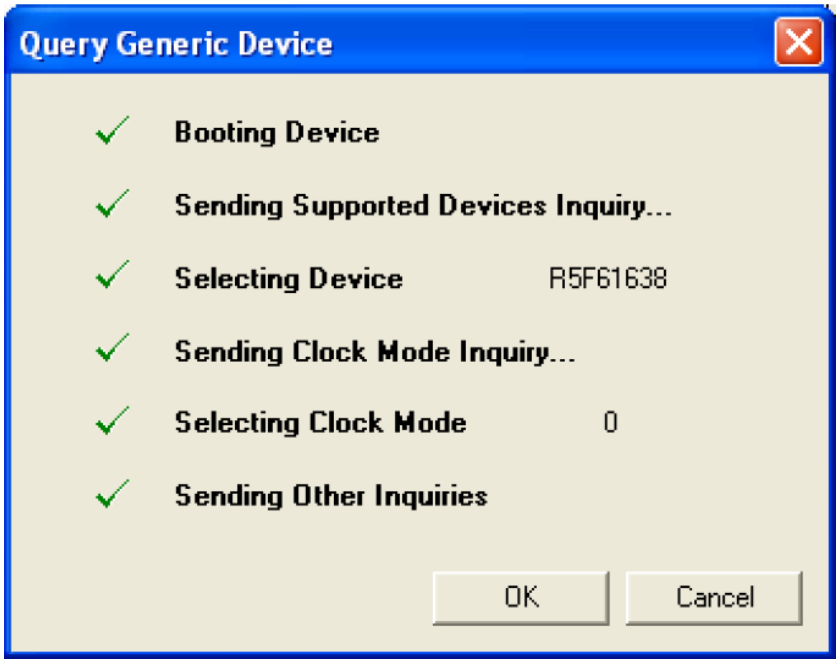


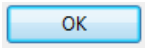
Then click

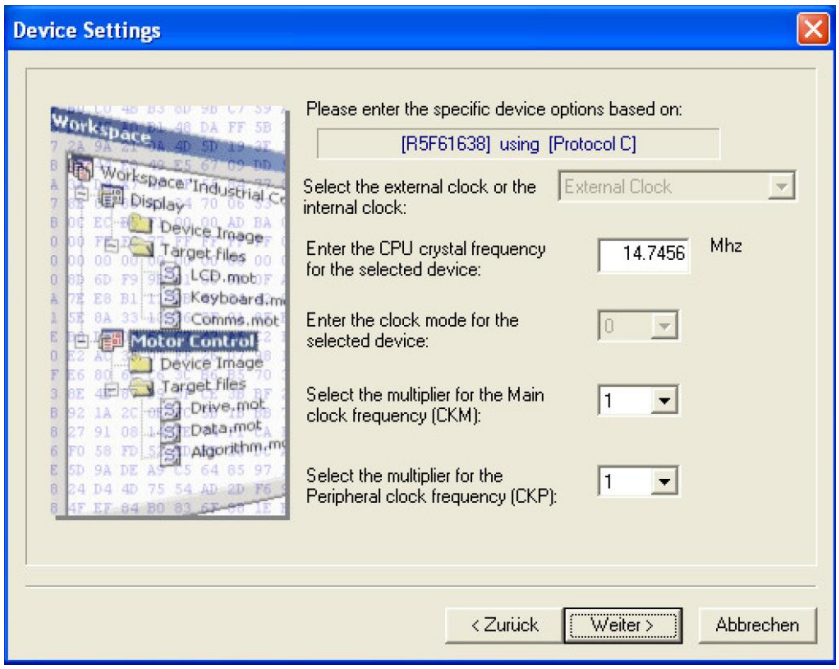
Reconnect the 24 VDC power supply of the Z60 device
(S1 Pin2 +24 V, Pin 3 GND) and make sure, that the device is switched on:

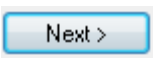
Then click 

Wait until all green checkmarks are visible:

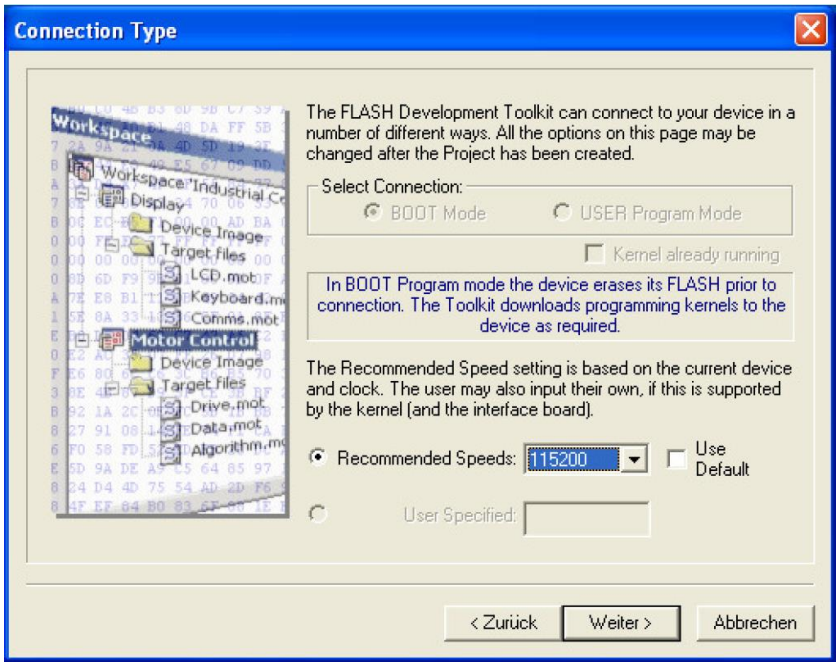


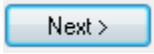
Then click 

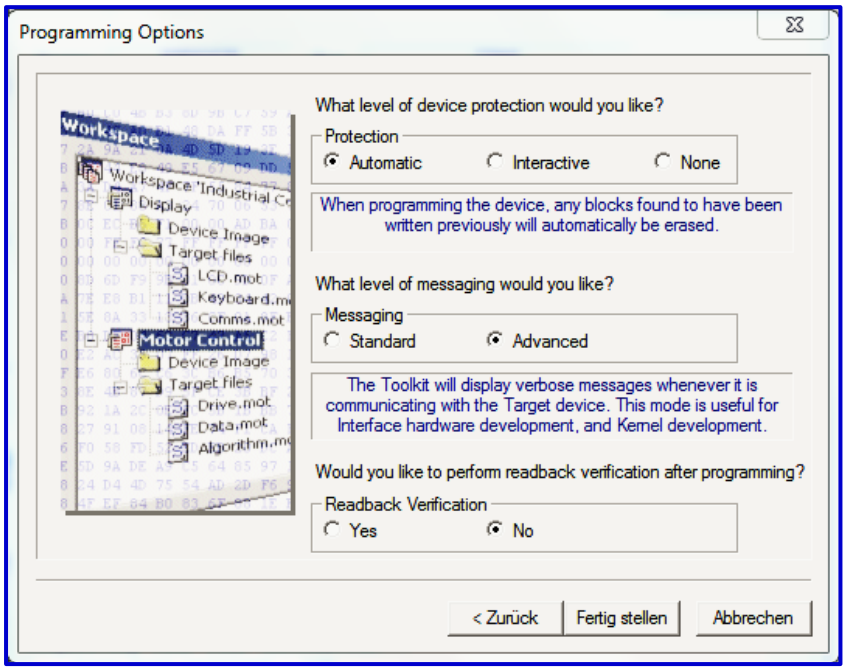


Enter resp. select all data as shown above and click 

Uncheck "Use Default" and enter "115200" into the speed field:



Then click 



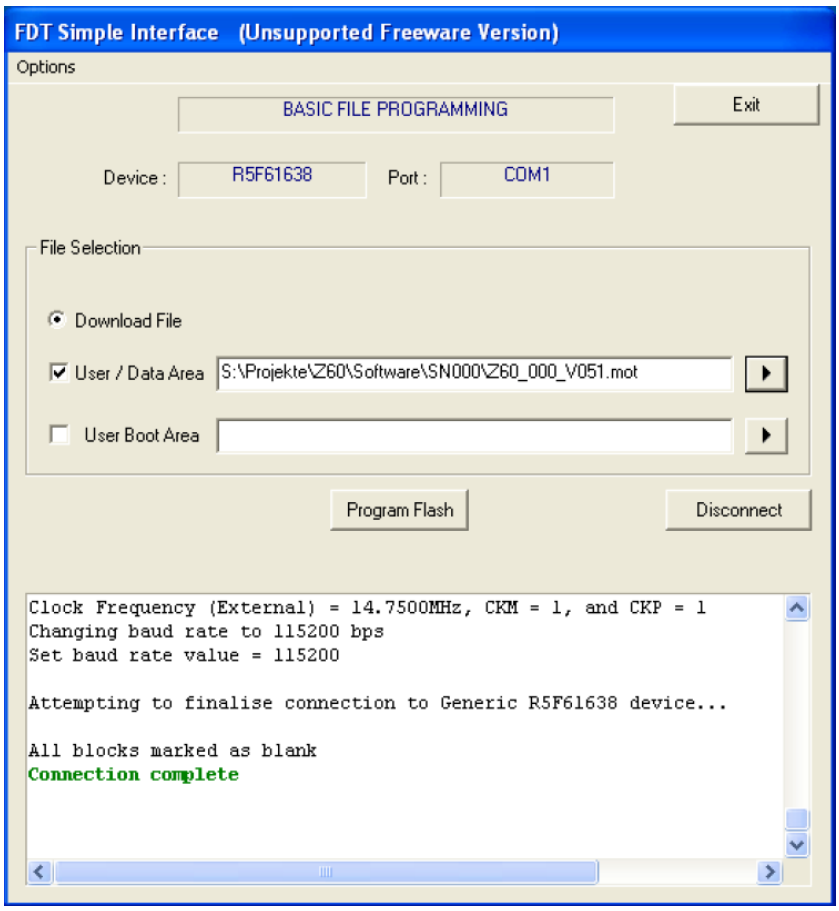
Check the checkboxes as seen above and click

The FDT software is now configured for Z60 devices.

8 Z60 Software Update Procedure

- Start the Flash Development Toolkit
- The slider (see ☞ 6.1) must still be in the "update mode" position
- The Z60 device must be in power ON status

Check "User / Data Area" and browse the .mot file (described in section ☞ 3):



If "Connection complete" appears, the system is ready to flash the Z60.

Click Program Flash

```
Data programmed at the following positions:
 0x00000000 - 0x0000007F      Length : 0x00000080
 0x00000100 - 0x000002FF      Length : 0x00000200
 0x00000300 - 0x0000057F      Length : 0x00000280
 0x00000800 - 0x0000BEFF      Length : 0x0000B700
47 K programmed in 5 seconds
Image written to device
Disconnecting
Disconnected
```

If the message "Image written to device" appears, the update was successful.

	Important: Please don't forget to switch the slider back to the normal mode (see ☞ 6.1) before installing the Z60 device back into the panel.

Notes:

ELGO Electronic GmbH & Co. KG
Measuring | Positioning | Control
Carl - Benz - Str. 1, D-78239 Rielasingen
Fon:+49 (0) 7731 9339-0, Fax:+49 (0) 7731 28803
Internet: www.elgo.de, Mail: info@elgo.de