

STM32 CUBE IDE INSTALLATION

Quickguide



1. GENERAL INFORMATION

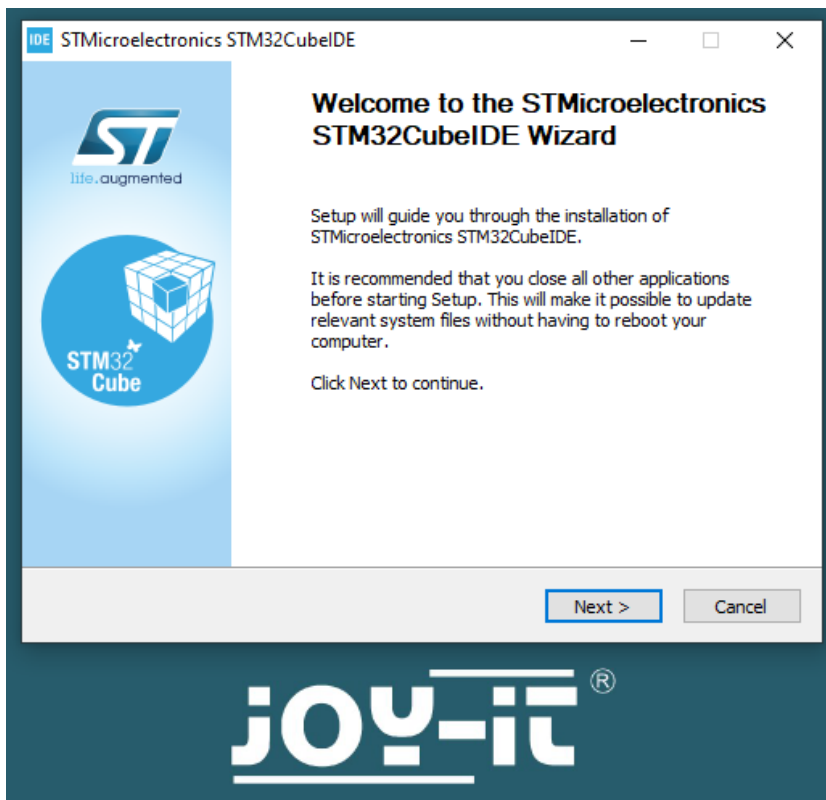
Dear customer,
thank you very much for choosing our product.
In the following, we will introduce you to what to observe while starting up and using this product.
Should you encounter any unexpected problems during use, please do not hesitate to contact us.

In this short manual, we explain how to edit the OpenSource firmware of the StromPi 3 and how to create a firmware binary for flashing.

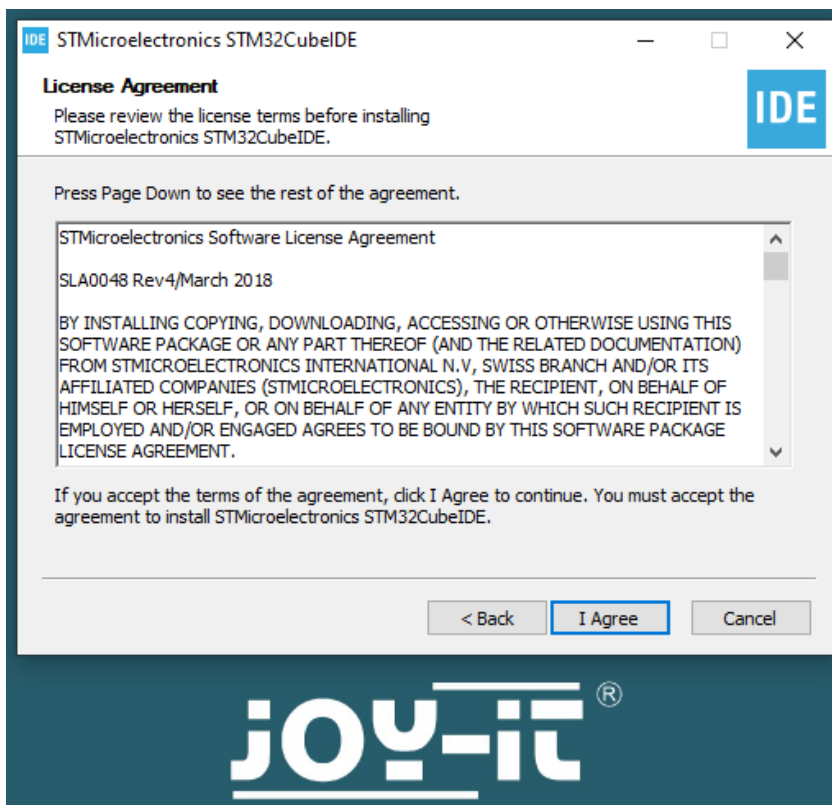
All functions of the StromPi can be read in the main manual of the StromPi 3. You can download it [here](#).

2. STM32 CUBE IDE INSTALLATION

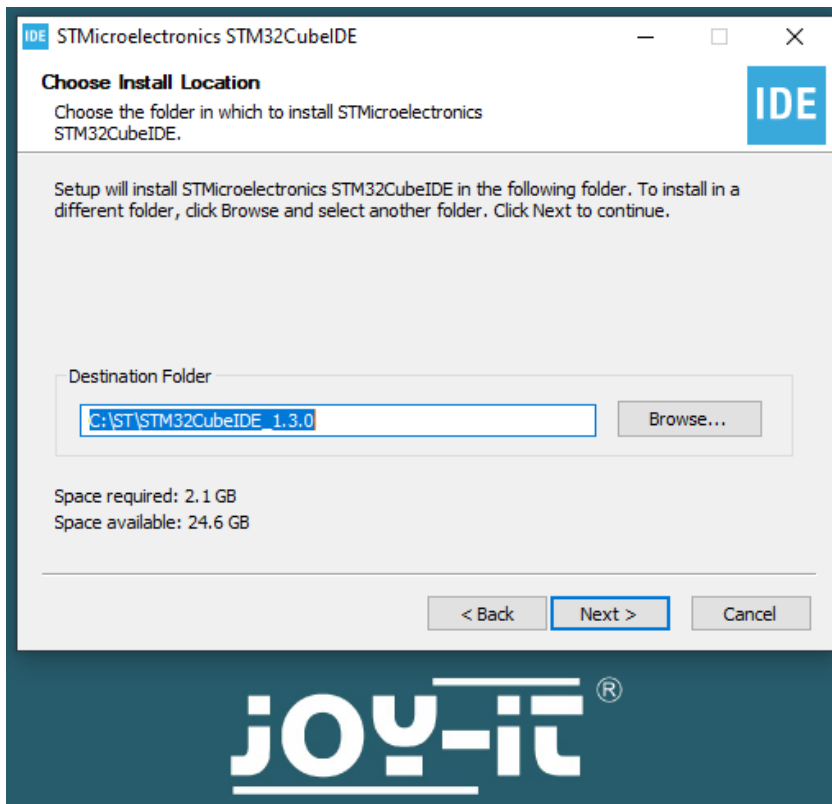
First, download the STM32 Cube IDE [here](#). Then unpack the downloaded ZIP archive and execute the unzipped file to start the installation of the STM32 Cube IDE.



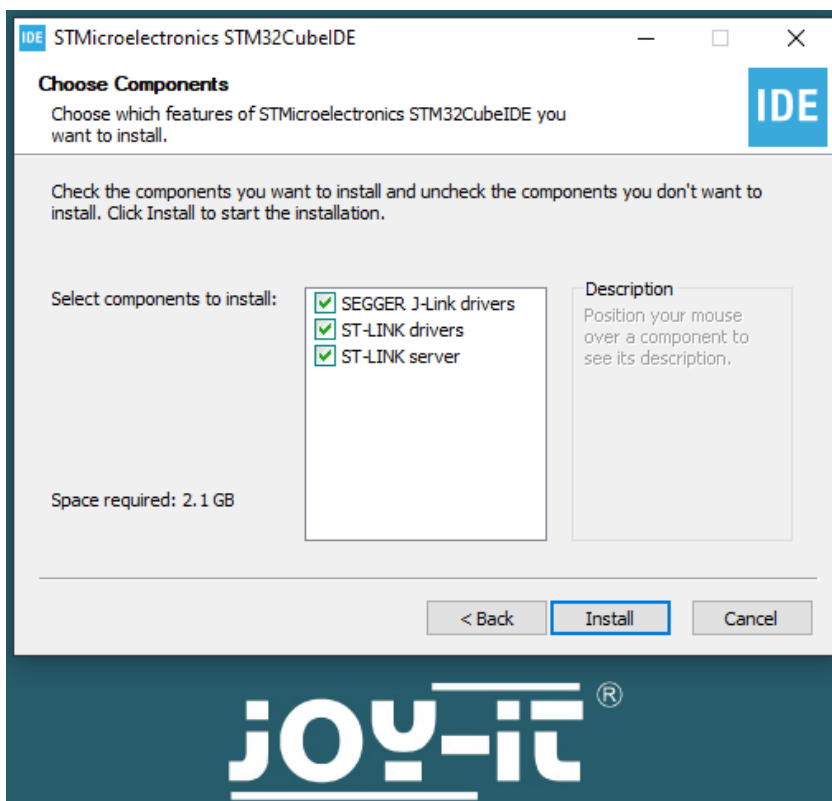
Click on "Next" to continue.



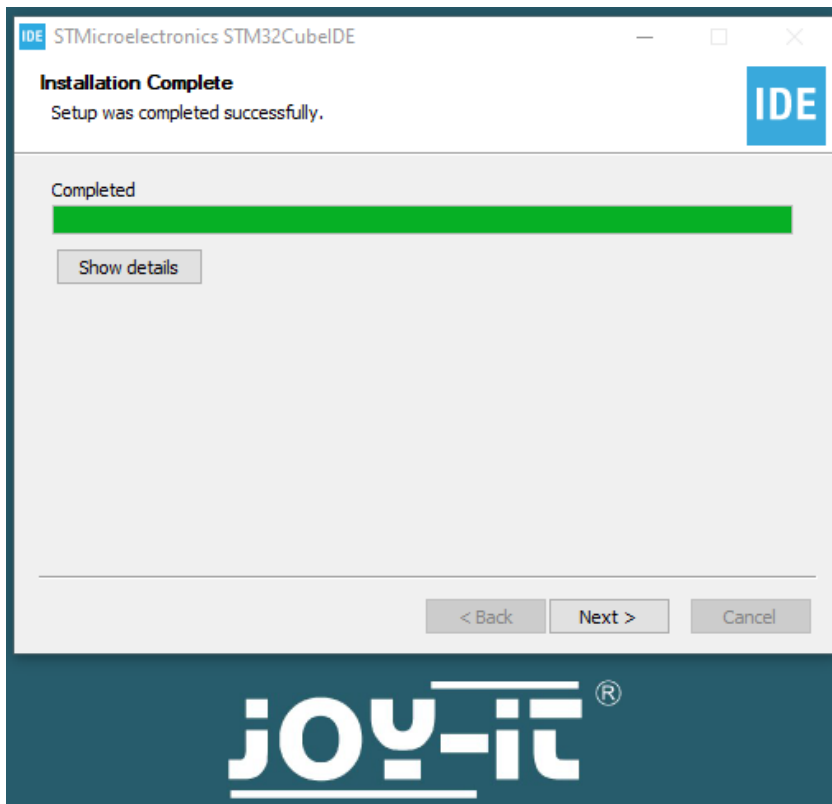
Read the license agreement and confirm that you agree with the terms by clicking "I Agree".



Select an installation directory and click "Next" to continue.



Start the installation with "Install".



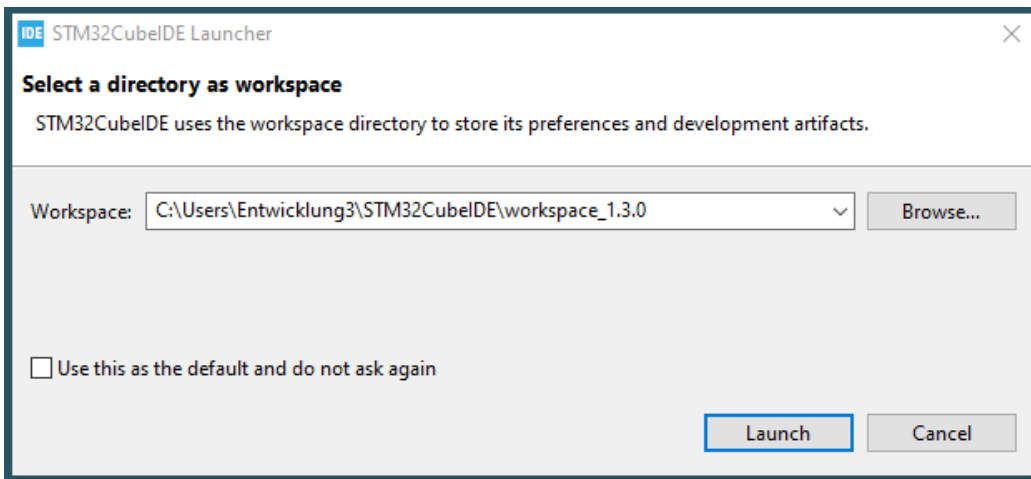
Click on "Next" to continue.



Complete the installation by clicking on "Finish".

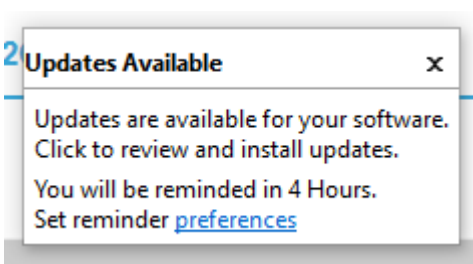
3. STM32 CUBE IDE SET UP

After the successful installation of the development environment, it is now set up. To do this, start STM32CubeIDE.

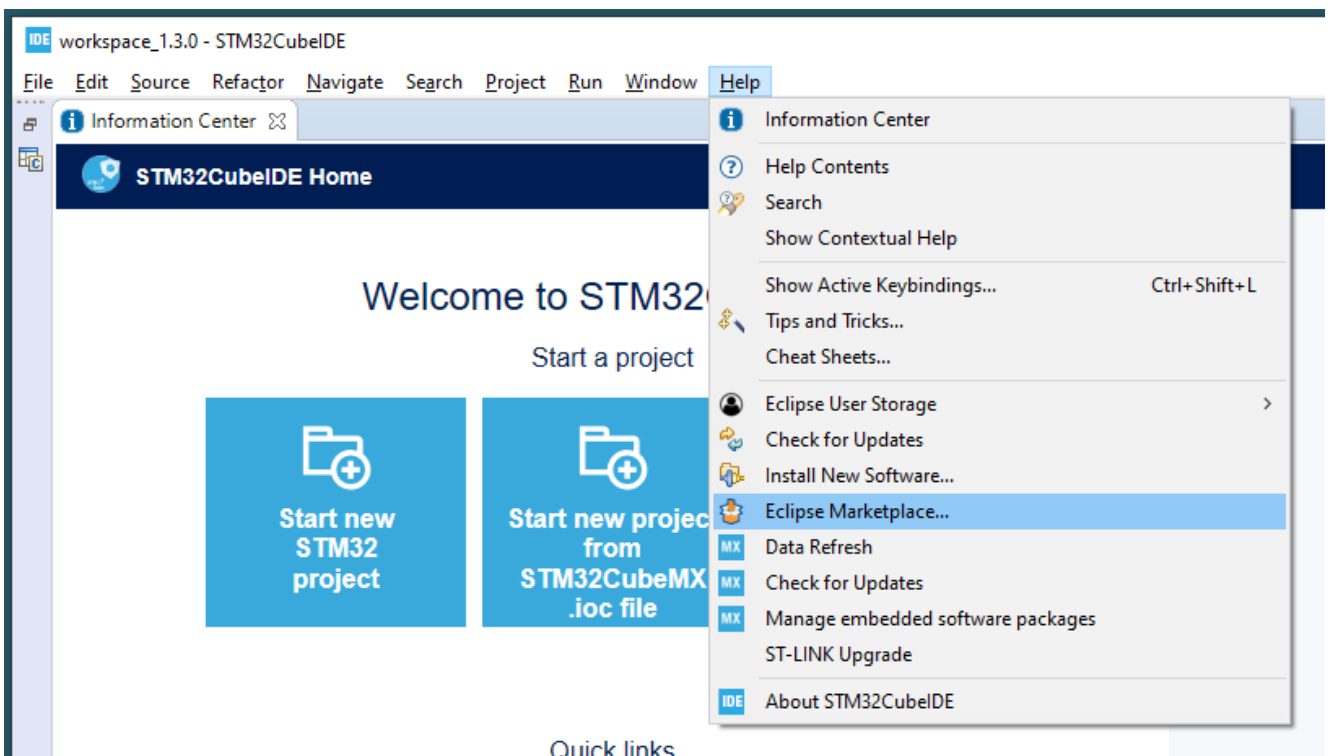


Select a working directory for the development environment and start it by clicking on "Launch".

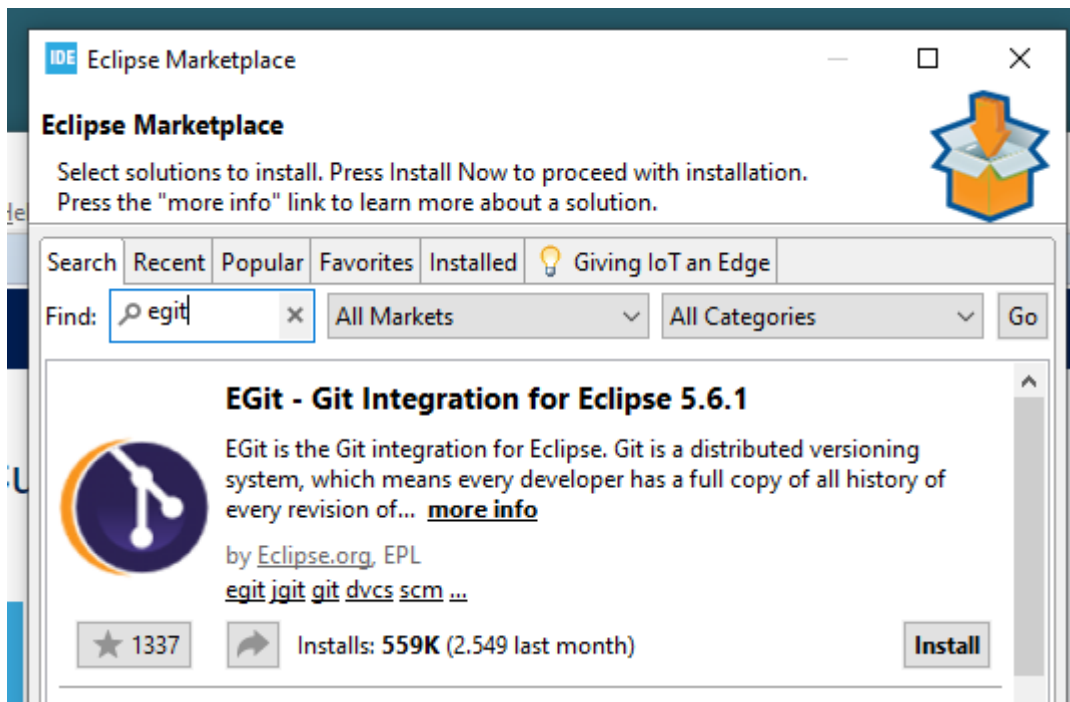
Note: Add a firewall rule if necessary.



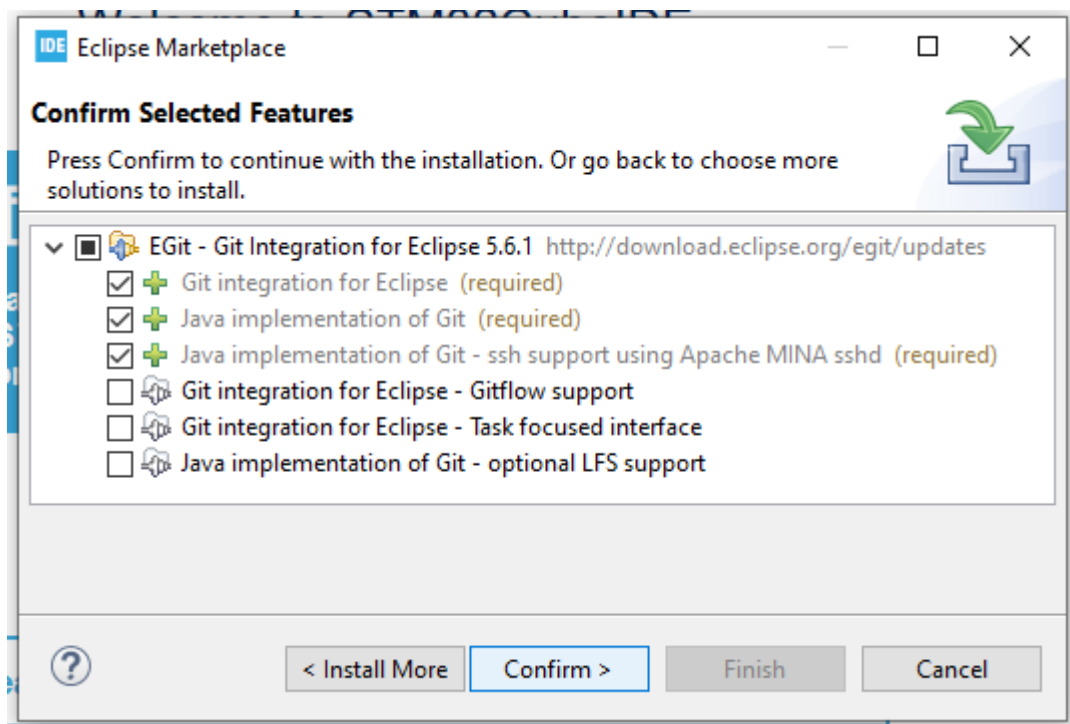
If updates are available, install them first.



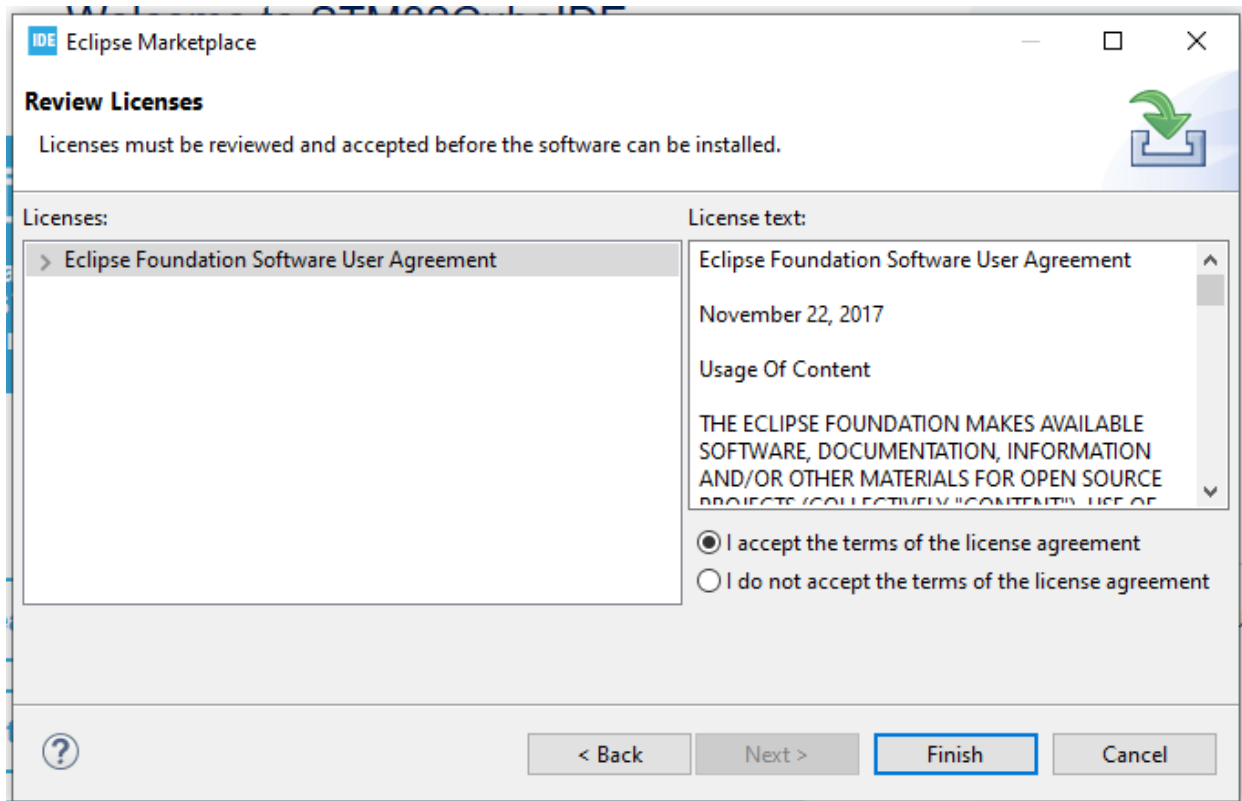
Open > Help > Eclipse Marketplace...



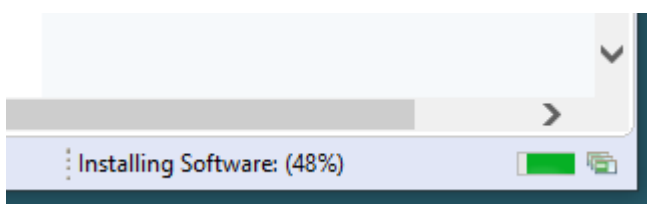
Enter "egit" in the search field and install the search result shown in the screenshot.



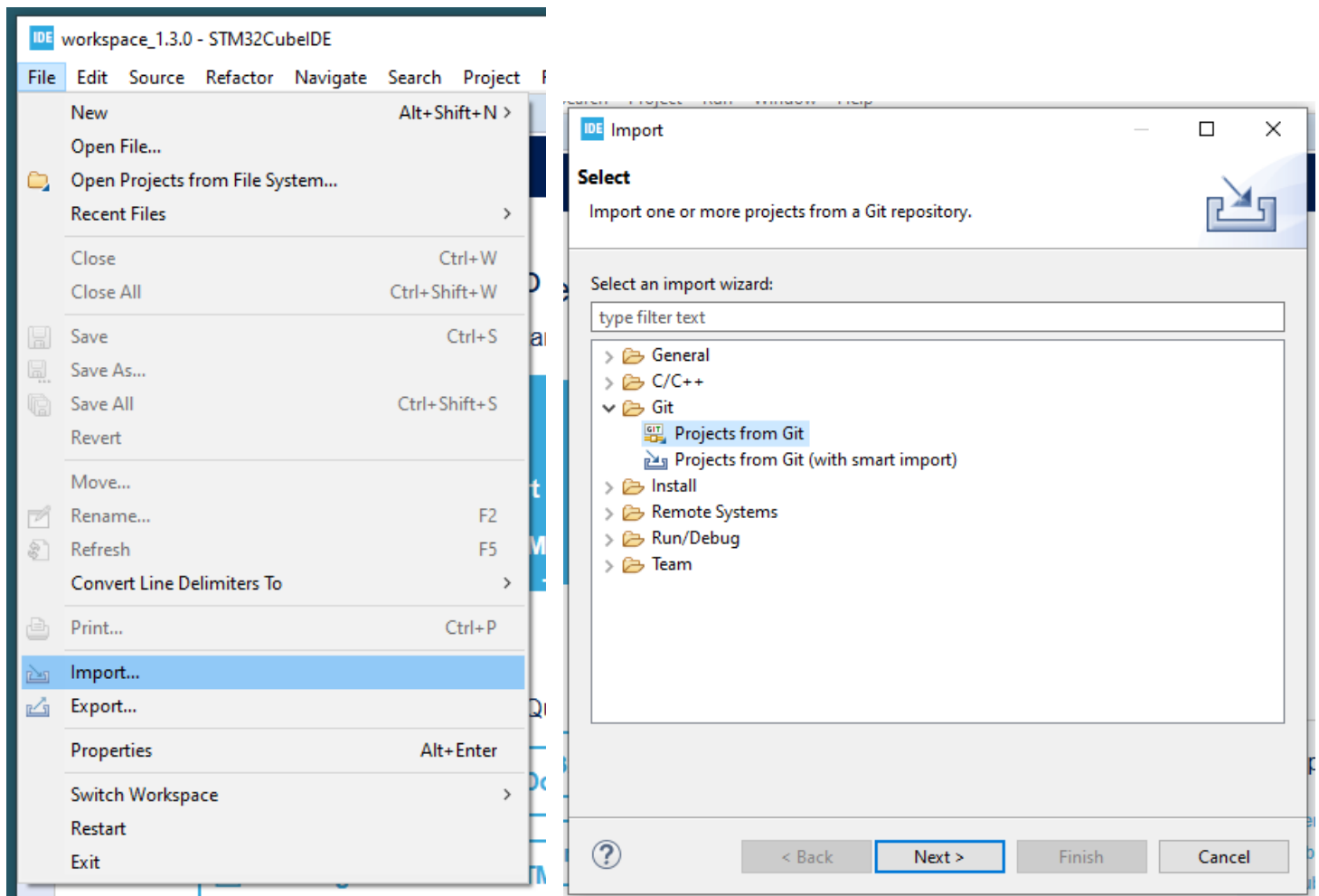
Click on "Confirm".



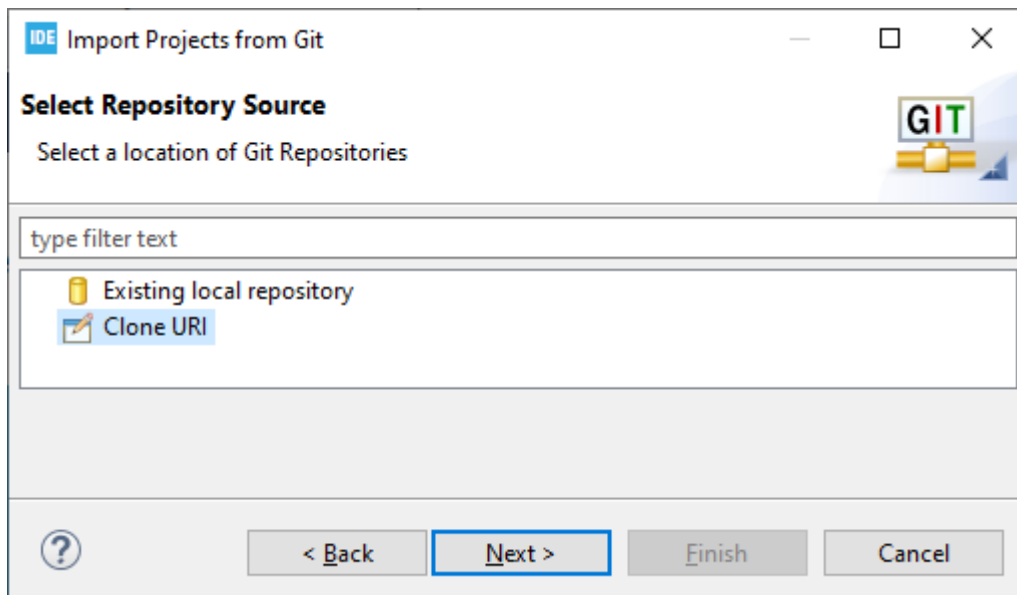
Read the license agreement and confirm that you agree with the terms with "I accept the terms..." and click "Finish".



Wait until the installation is complete and then restart the Cube IDE.



Open the import window with > File > Import ..., select "Projects from Git" and click on "Next".



Select "Clone URI" and click on "Next".

IDE Import Projects from Git

Source Git Repository

Enter the location of the source repository.

Location

URI:

Host:

Repository path:

Connection

Protocol:

Port:

Authentication

User:

Password:

☐ Store in Secure Store


Enter the following GitHub address in the "URI" text box:
<https://github.com/joy-it/strompi3>
Then click on "Next".

IDE Import Projects from Git

Branch Selection

Select branches to clone from remote repository. Remote tracking branches will be created to track updates for these branches in the remote repository.

Branches of <https://github.com/joy-it/strompi3>:

☒  master

Click on „Next“.

IDE Import Projects from Git

Local Destination
Configure the local storage location for strompi3.

Destination

Directory:

Initial branch:

☐ Clone submodules

Configuration

Remote name:

Click on „Next“.

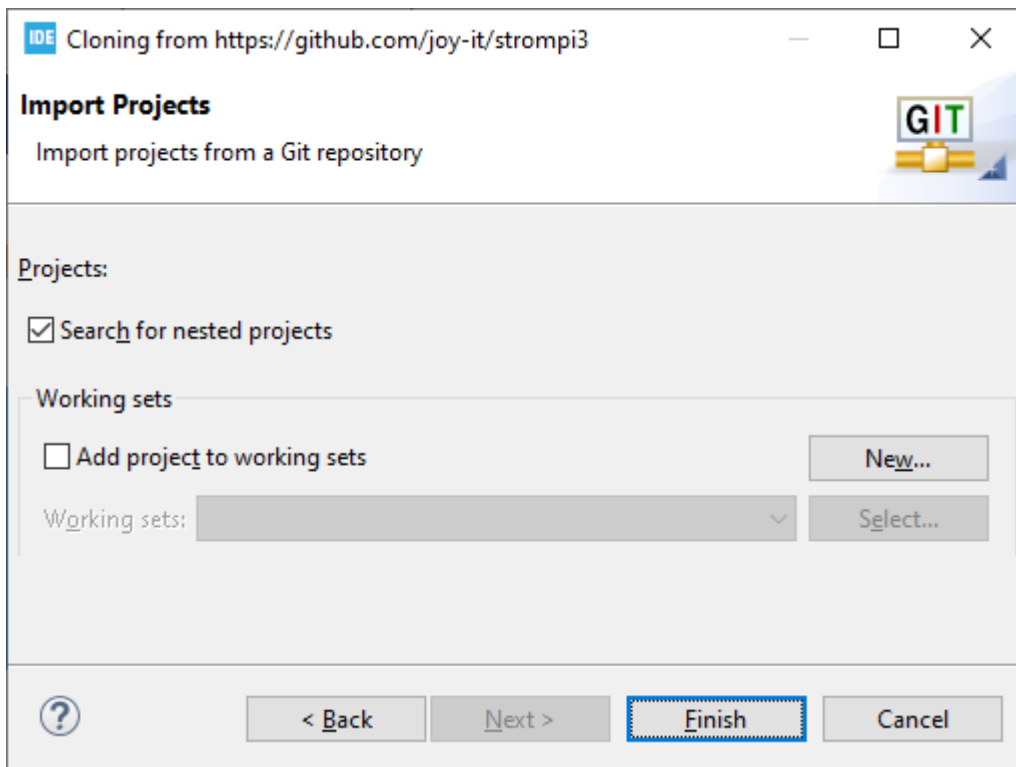
IDE Cloning from <https://github.com/joy-it/strompi3>

Select a wizard to use for importing projects
Depending on the wizard, you may select a directory to determine the wizard's scope

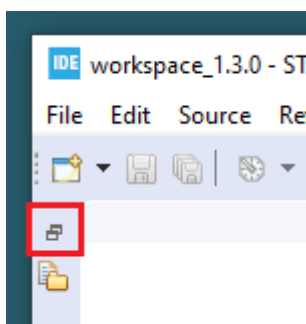
Wizard for project import

☒ Import existing Eclipse projects
☐ Import using the New Project wizard
☐ Import as general project

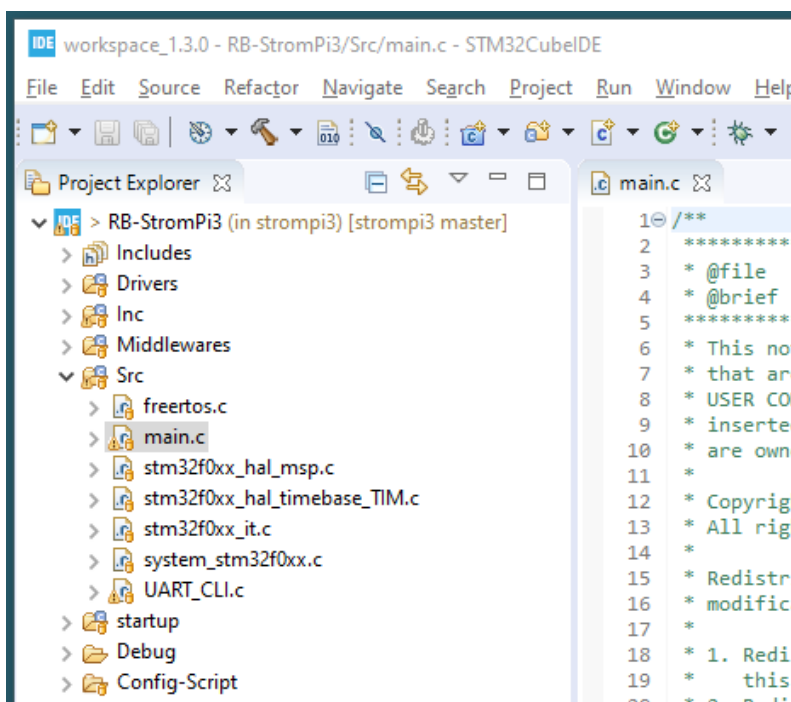
Click on „Next“.



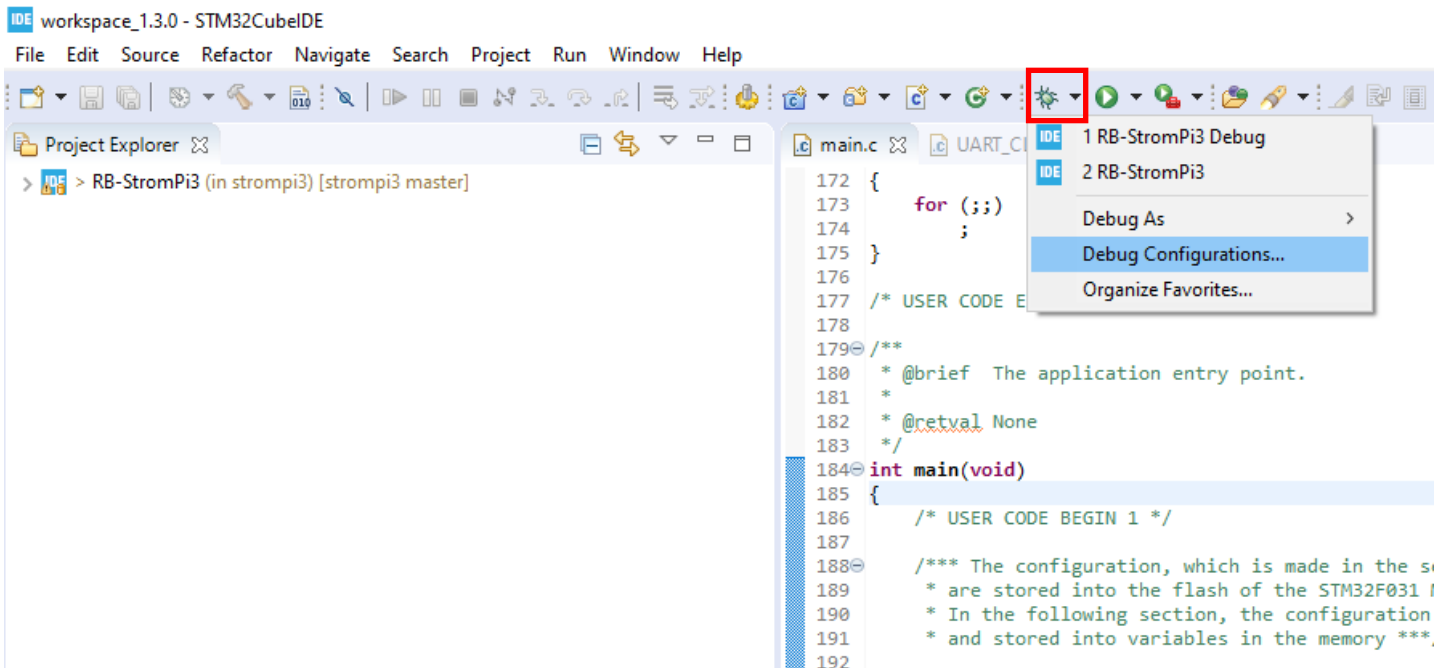
Click on „Next“.



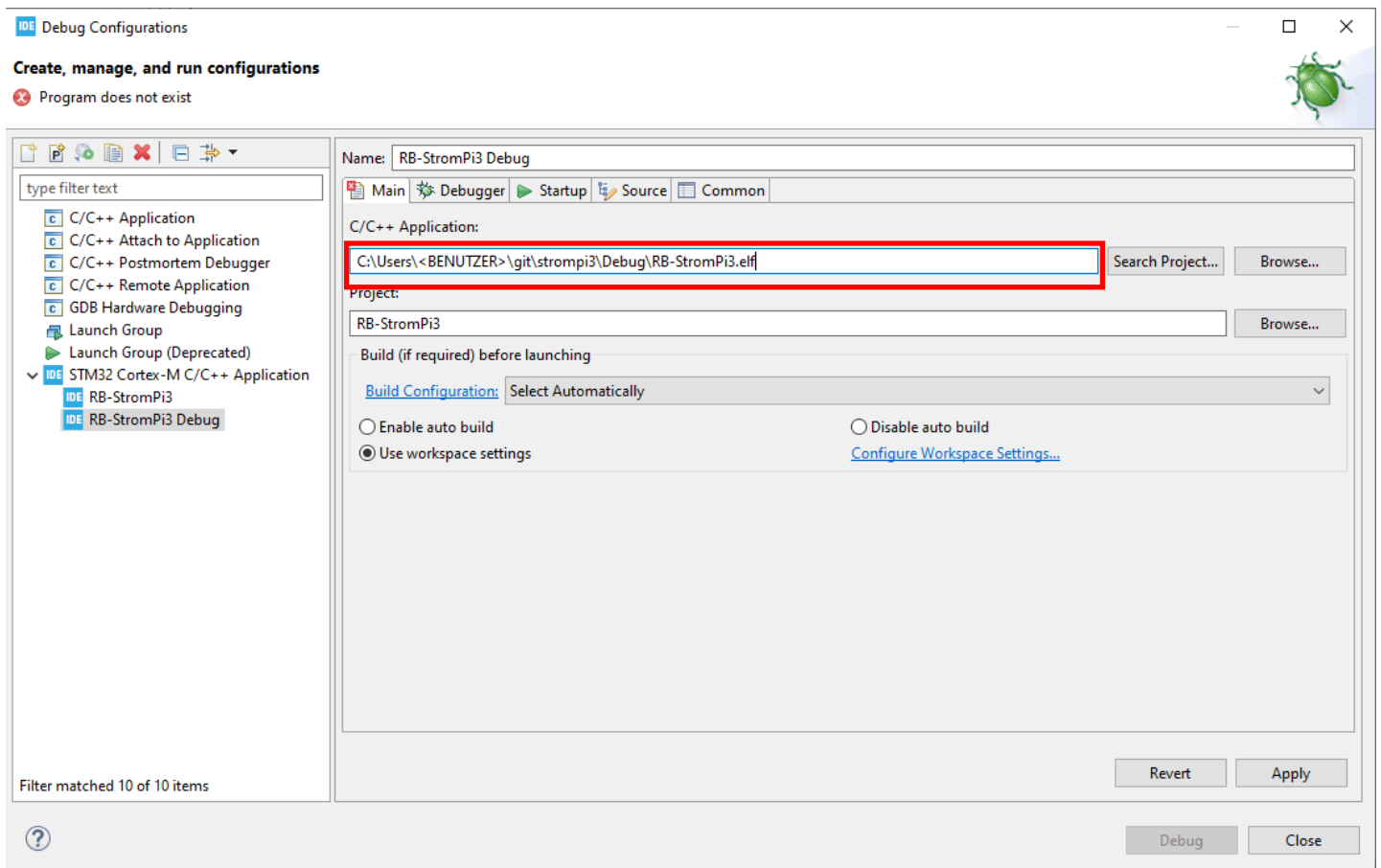
Now click on the marked icon to maximize the minimized project.



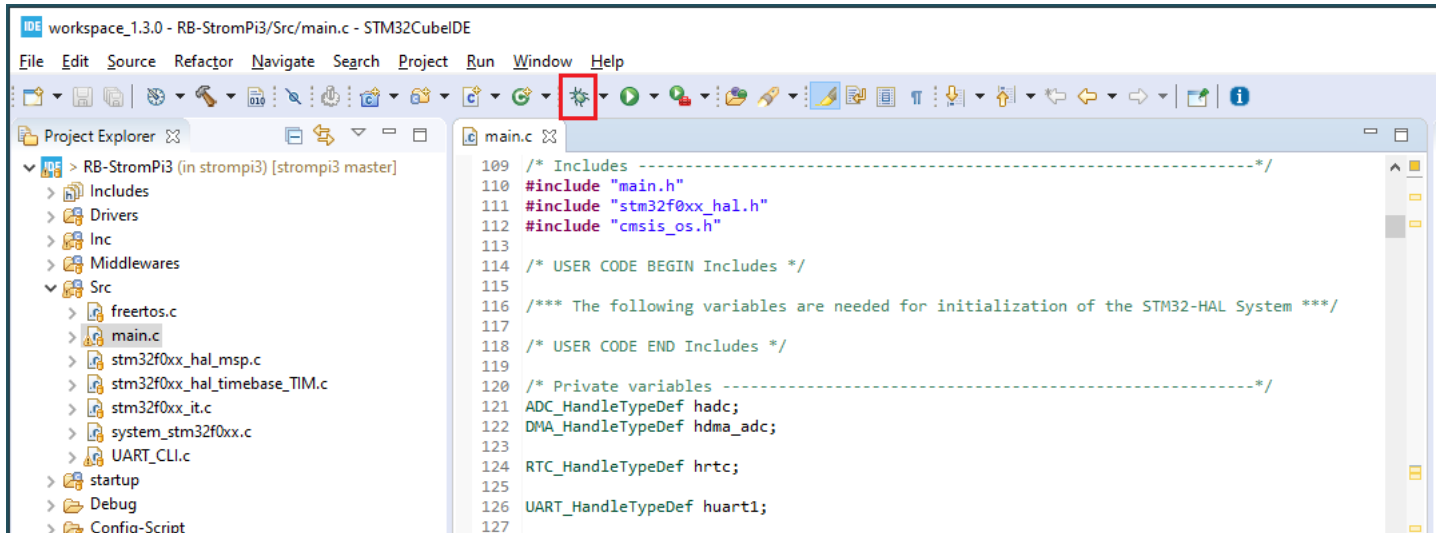
Open the file "main.c". Here it is now possible to make changes to the firmware.



Open the Debug Configurations



Enter your corresponding file path here

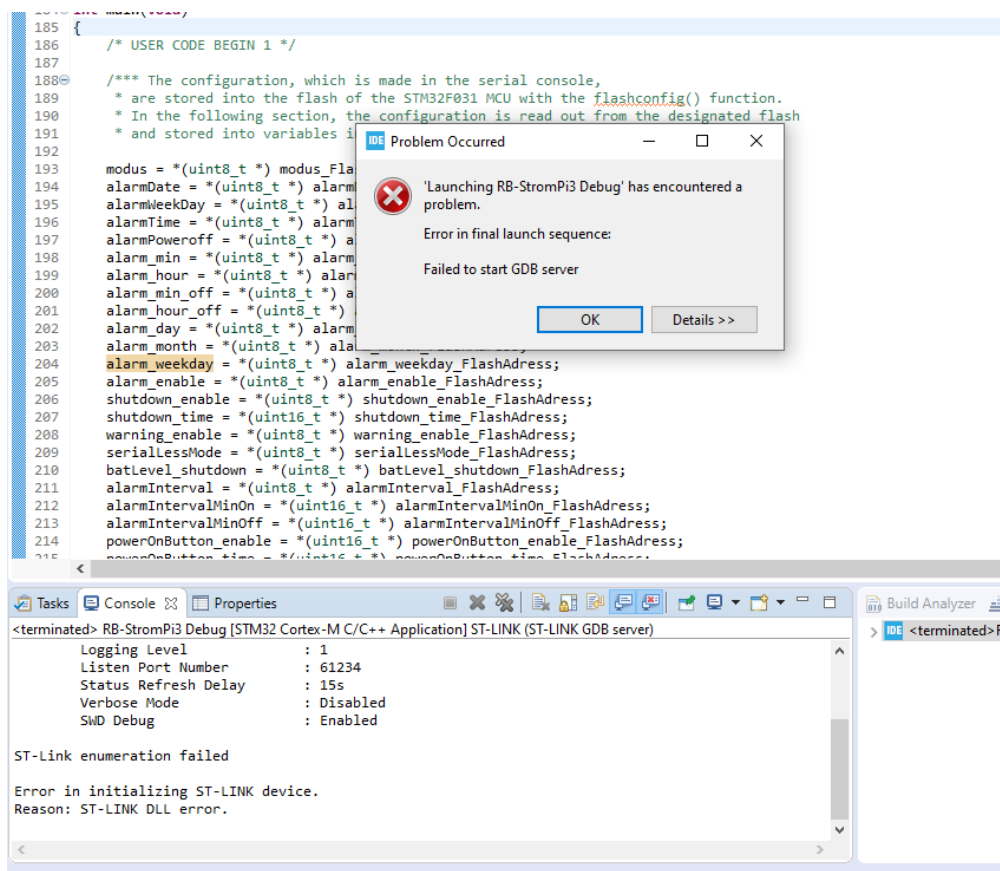


After you have made the desired changes to the firmware, you can start the debugging process by clicking the marked icon. If no errors occur, the created binary file (.bin) is saved under

"C:\Users\<User>\git\strompi3\Debug\RB-StromPi3.bin"

This file can then be transferred to the StromPi 3 according to the Flash instructions.

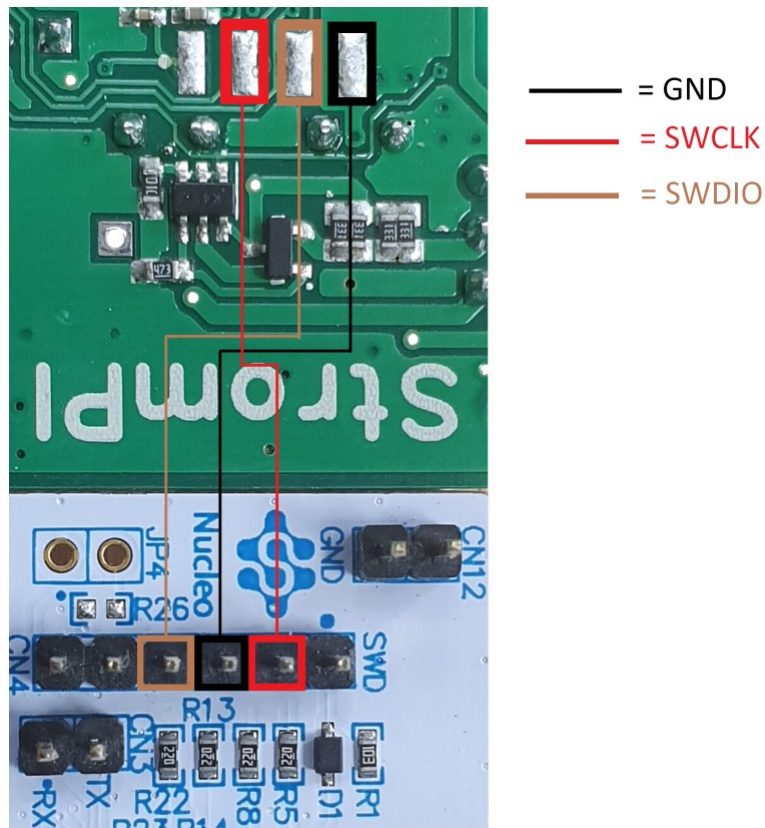
If you have not connected a debugger, the following error message will appear:



However, the binary file is still created.

4. CONNECTING STROMPI 3 WITH DEBUGGER

When using a debugger, connect the marked solder pads to the pins of the debugger as shown in the figure.



5. ADDITIONAL INFORMATION

Our information and take-back obligations according to the Electrical and Electronic Equipment Act (ElektroG)



Symbol on electrical and electronic equipment:

This crossed-out dustbin means that electrical and electronic appliances do not belong in the household waste. You must return the old appliances to a collection point.

Before handing over waste batteries and accumulators that are not enclosed by waste equipment must be separated from it.

Return options:

As an end user, you can return your old device (which essentially fulfils the same function as the new device purchased from us) free of charge for disposal when you purchase a new device.

Small appliances with no external dimensions greater than 25 cm can be disposed of in normal household quantities independently of the purchase of a new appliance.

Possibility of return at our company location during opening hours:

SIMAC Electronics GmbH, Pascalstr. 8, D-47506 Neukirchen-Vluyn, Germany

Possibility of return in your area:

We will send you a parcel stamp with which you can return the device to us free of charge. Please contact us by email at Service@joy-it.net or by telephone.

Information on packaging:

If you do not have suitable packaging material or do not wish to use your own, please contact us and we will send you suitable packaging.

6. SUPPORT

If there are still any issues pending or problems arising after your purchase, we will support you by e-mail, telephone and with our ticket support system.

Email: service@joy-it.net

Ticket system: <http://support.joy-it.net>

Telephone: +49 (0)2845 98469-66 (10-17 o'clock)

For further information please visit our website:

www.joy-it.net