

Getting Started Guide

for STM8/STM32 evaluation boards from STMicroelectronics

This getting started guide briefly describes how to get started using IAR Embedded Workbench® for ARM with ST-LINK debug interface to run an example application on STM8/STM32 evaluation boards from ST.

For more detailed information, see the IAR Embedded Workbench® IDE Project Management and Building Guide, and the C-SPY Debugging Guide.

Install IAR Embedded Workbench

- 1 Download IAR Embedded Workbench for ARM (STM32) or STM8 software from <http://www.iar.com/downloads> (the internet access is needed).
- 2 Run the software setup .exe file, it may take a while for the installation files to unpack.
- 3 Follow the prompt instructions to install the product. We recommend that you use the default directories on your installation.
- 4 After installation, start IAR Embedded Workbench. Unless you already have an activated valid license, a License Wizard will start.
- 5 Select Register with IAR Systems to get an evaluation license.

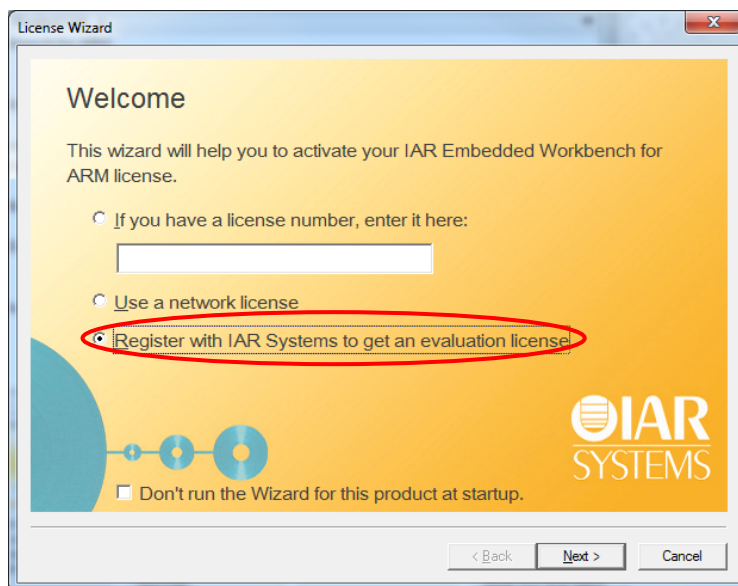


Figure 1 - Register to get an evaluation license

- 6 Select IAR Embedded Workbench for ARM or STM8 and click **Next**.

- 7 Click **Register** and select a Time limited or Code size limited evaluation license. Then complete and submit the registration to get your license number, which will be delivered to you via e-mail within a few minutes.
- 8 Activate the license received above in the License Wizard window.

You may register both the time or code size limited evaluation licenses, active and switch in between from the License Manager. For more information, read the Licensing Guide, under USER GUIDES in IAR Information Center (Figure 2).

Set up the evaluation board

Please follow the ST Evaluation board user manual to configure the board and connect to PC..

Run example applications

To take full advantage of the examples, you must have some working knowledge of IAR Embedded Workbench IDE. For a quick introduction, see the **GETTING STARTED** and the **TUTORIALS** in the **IAR Information Center**, see Figure 2.

For STM32 evaluation boards

- 1 Choose **Start>All Programs>IAR Systems>IAR Embedded Workbench for ARM x.xx >IAR Embedded Workbench** to start IAR Embedded Workbench.
- 2 Click **EXAMPLE PROJECTS**.

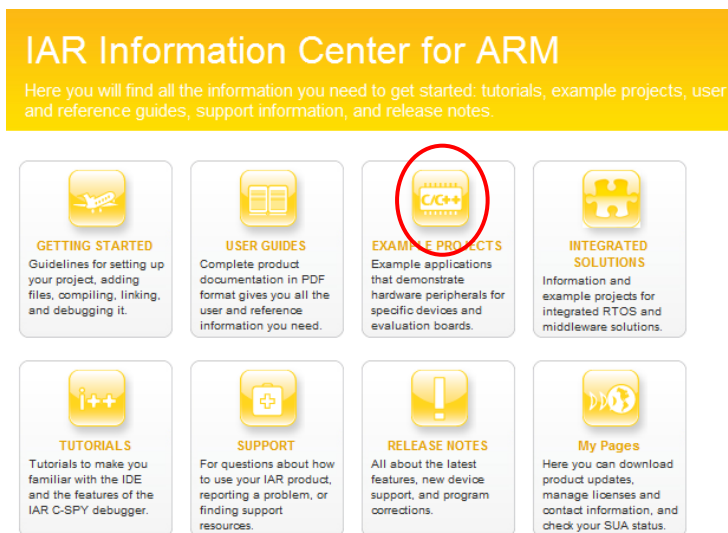


Figure 2- IAR Information Center for ARM

- 3 Click  to download the example projects for ST, and choose Download from IAR Systems. After downloading, the ST will appear under Installed example projects on the top.

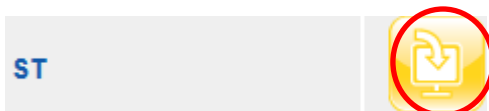


Figure 3 - Download example projects for ST

- 4 Choose a STM32 evaluation board, for example, ST ->STM32F10xx ->STM32-EVAL>, and click  to open an example project STM32F10B_EVAL_Demo.
- 5 Click **Choose** to select or accept the default destination folder to save a copy of this project for testing, so that the original project will not be updated for any changes you made during testing.
- 6 Read the Example description.
- 7 Select **Project ->Options...** and set the Debugger driver to ST-LINK.

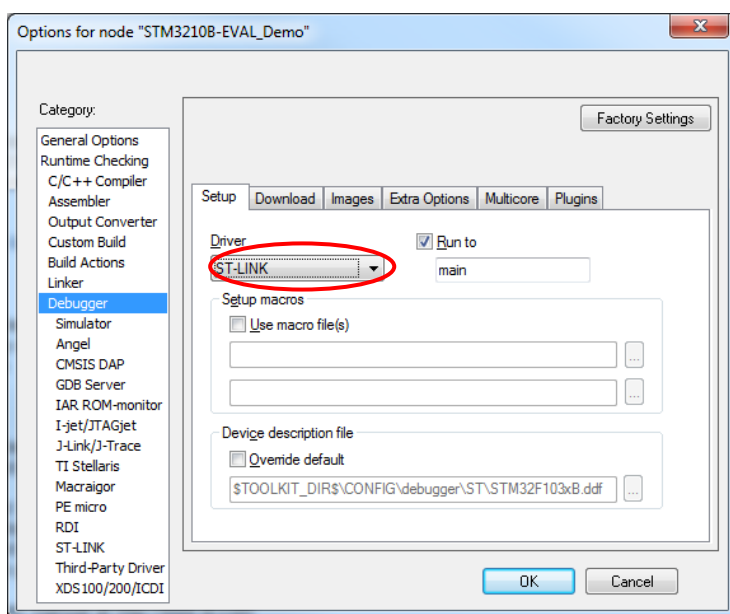


Figure 4 – Set ST-LINK debugger driver

- 8 Choose **Project>Make** or click the  button on the toolbar. The project should be compiled and linked without errors.

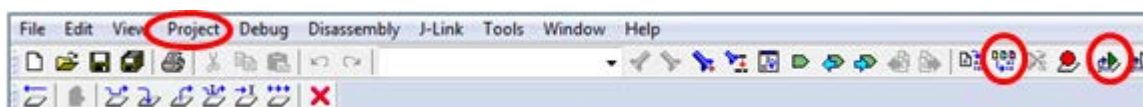


Figure 5 – IAR Embedded Workbench IDE - Toolbar

- 9 Click the  button to download your program to the evaluation board. The file `main.c` is now open in the Editor window and the program is stopped at the start.
- 10 Click the  button to start the application..
- 11 To stop C-SPY, click the  button.
- 12 To exit C-SPY, click the  button.

For STM8 evaluation boards

- 1 Choose **Start>All Programs>IAR Systems>IAR Embedded Workbench for STM8 x.xx >IAR Embedded Workbench** to start IAR Embedded Workbench.
- 2 Click **EXAMPLE PROJECTS**.
- 3 Click **ST-LINK**, select a STM8 evaluation board, for example **STM8L101-EVAL**, and open an example project.
- 4 Repeat step 5-12 (except step 7) as above.