Getting Started Guide

for STM8/STM32 evaluation boards from STMicroelectronics

This guide briefly describes how to get started using IAR Embedded Workbench® 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 User Guide*, which also contains the C-SPY hardware debugger documentation. This document is reached from the Help menu in the IAR Embedded Workbench IDE.

Install IAR Embedded Workbench

1 Choose and install IAR Embedded Workbench for STM8 or ARM (STM32), Kickstart edition. During installation, you need register to get your license number and key, which will be delivered to you via e-mail within a few minutes.

2 Follow the prompt instructions to install the software. Note that it may take several minutes for the installation files to unpack. We recommend that you use the default directories on your installation.

For the latest software and document updates, please check at **http://www.iar.com/downloads** or **http:/www.iar.com/kit_updates**.

Set up the evaluation board

After you have installed the software, please follow the ST Evaluation board user manual to configure the board and connect to PC.

Run example applications

When you have installed and set up all the software and hardware, it is time to the example applications provided with the IAR Embedded Workbench for STM8 or ARM (STM32).

To take full advantage of the example application, you should have some working knowledge of IAR Embedded Workbench IDE. For a quick introduction, see the tutorials in the *IAR Embedded Workbench® IDE User Guide*, available as an online PDF from the IAR Embedded Workbench IDE Help menu.

For STM32 evaluation boards from ST

1 From the **Start** menu, start the IAR Embedded Workbench IDE by choosing **All Programs> IAR Systems> IAR Embedded Workbench for ARM x.xx Kickstart >IAR Embedded Workbench.** You will get straight into the **IAR Information Center for ARM**.
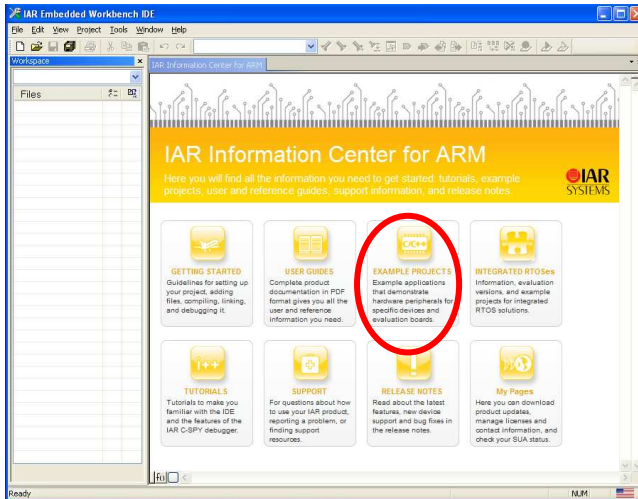
2 Click **EXAMPLE PROJECTS**.

Figure 1 - IAR Information Center for ARM

3 Select **ST->STM32F10xx->STM32-Eval**, then choose a STM32 evaluation board, for example **STM32F10B_EVAL_Demo V2.0.0** to open the example project (click the ⬛ icon).

4 Choose a 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.

5 Read the **Example description**.

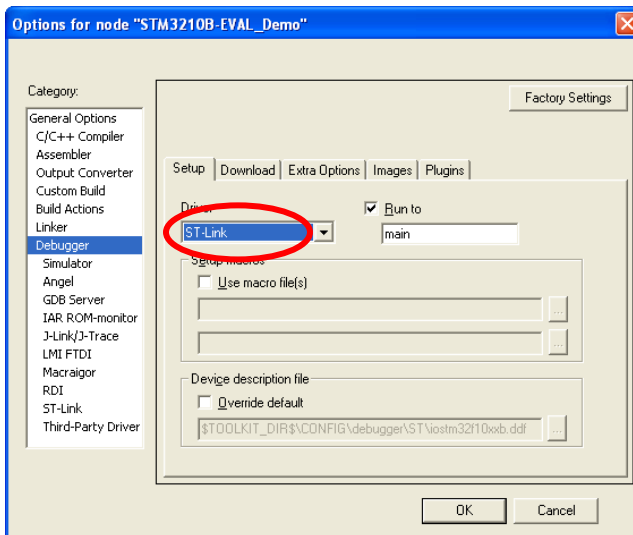**6** Select **Project ->Options…** and set Debugger driver to **ST-LINK** .

Figure 2 – Select ST-LINK debug driver

7 Choose **Project>Make** or click the **Make** button on the toolbar. The project should compile with no errors (you can ignore the warnings).
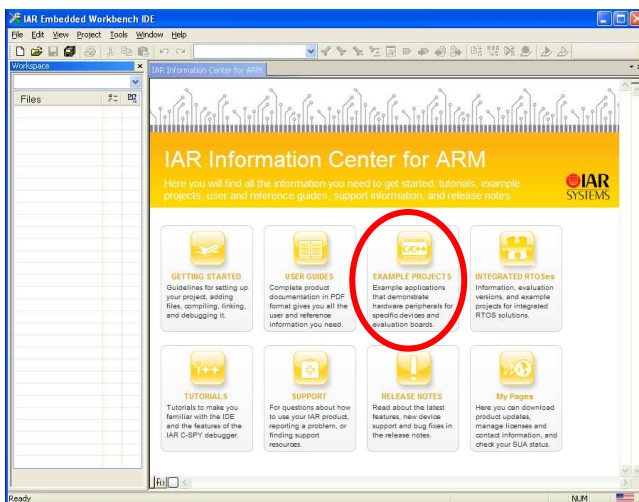

Figure 3 - The Make button

8 Choose **Project>Download and Debug** or click the **Download and Debug** button on the toolbar to downloaded your program to the development board.

9 The file `main.c` is now open in the editor window and the program is stopped at the start. Click **Debug>Go** or click the **Go** button on the toolbar to start the application.

10 To stop C-SPY, click the **Break** button on the debug bar.

11 To exit C-SPY, click the **Stop Debugging** button on the toolbar.

12 To try other example projects included, click **Help>Information Center** to bring up the **IAR Information Center** again. Remember to read the project descriptions in each project.

For STM8 evaluation board from ST

1 From the **Start** menu, start the IAR Embedded Workbench IDE by choosing **All Programs> IAR Systems> IAR Embedded Workbench for STMicroelectronics STM8 x.xx Kickstart>IAR Embedded Workbench.** You will get straight into the **IAR Information Center for STMicroelectronics STM8**.

2 Click **EXAMPLE PROJECTS**.

3 Select **ST-LINK,** then choose a STM8 evaluation board, for example **STM8L101-EVAL**, to open the example project (click the icon).

4 Repeat step 4-12 as above.