A Getting Started to

AURIX[™] **TC3xx** - Free Entry **Tool Chain**

AURIX family and **AUDO Future, AUDO MAX**

Integrated Development Environment for 32-bit AURIX and TriCore derivatives





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This manual contains 42 pages.

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Introduction

This **Getting Started** document will help you to install and configure the Hardware and Software tools necessary to operate the Free TriCore Entry Tool Chain. At the end of the instructions described in this document, you will have a running environment that could be used as a starting point for further development or evaluation work.

This tutorial goes step-by-step through the necessary procedures in order to:

- > Install the Free TriCore™ Entry Tool Chain
- > Set up a project
- Configure the Evaluation Board and connect it to the PC
- Debug your application



If you need more information, please contact your nearest Infineon sale's office. Contact information is available on Infineon web site: **www.infineon.com**.

We wish you a lot of success with the Free TriCore Entry Tool Chain!

Note: "Starter Kit Evaluation Board", "Evaluation Board", "TriBoard" and "Target" terminology are used to denote Evaluation Boards as shown in Figure 17 to Figure 31.

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Installing the AURIX TC3xx - Free Entry Tool Chain

Before you start

To execute this Getting Started, it is necessary to have a

- Microsoft Windows® compatible PC equipped with USB port
- > Operating System Windows® 7, Windows® 8.1, Windows® 10 (32-bit/64-bit)
- Power user's or administrator rights are mandatory to install the required programs
- During installation a connection to the internet is required for license activation

All the items below are included in the Starter Kit.

- Power Supply (AC/DC converter) (5.5V 60V) for the Starter Kit Board (optional)
- TriCore Family Starter Kit Evaluation Board
- Free TriCore Entry Tool Chain installation package
- > USB cable.

System Requirements

Before installing, make sure the following minimum system requirements are met:

- > 2,5 GHz or faster 32-bit (x86) or 64-bit (x64) processor
- 4 GByte RAM (32-bit) or 8 GByte RAM (64-bit)
- > 3 GByte available hard disk space
- ➤ Microsoft .NET™ Framework 4
- Microsoft Windows® Scripting Host V5.6
- Microsoft Internet Explorer® 10 or higher
- Java Runtime Environment v8 (32-bit version)
- Adobe® Acrobat Reader 10.0 or higher.

Installation

1. From the installation package run the installer setup.exe. **Free TriCore Entry Tool Chain** dialog appears (Figure 8).







Figure 1 Free TriCore Entry Tool Chaon Setup dialog

2. Select **Next** button. The License Agreement dialog appears. Please read carefully and agree or cancel the installation with Cancel button (Figure 8).

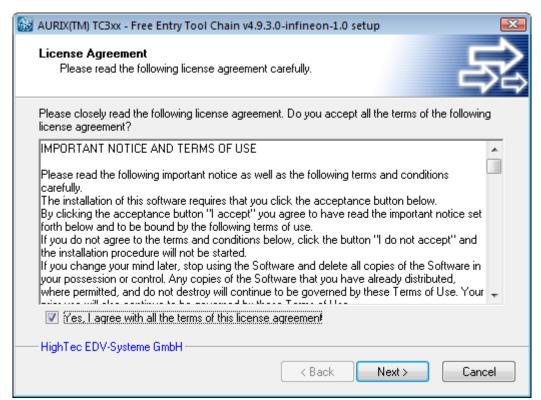


Figure 2 License Agreement dialog

3. Click **Next** button. It is recommended to choose the full installation with all components (Figure 3).

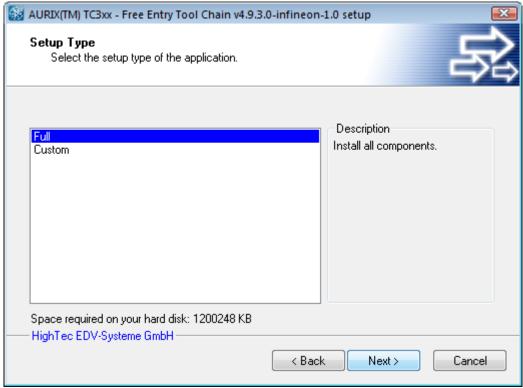


Figure 3 Setup Type selection

4. Click **Next** button. The dialog for selecting the installation directory appears (Figure 4). Use the default or select another installation directory.

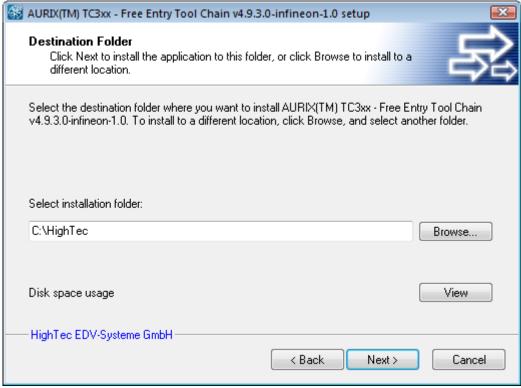


Figure 4 Free TriCore Entry Tool Chain Setup folder dialog

5. Click Next button. Select the name of the Program Group and

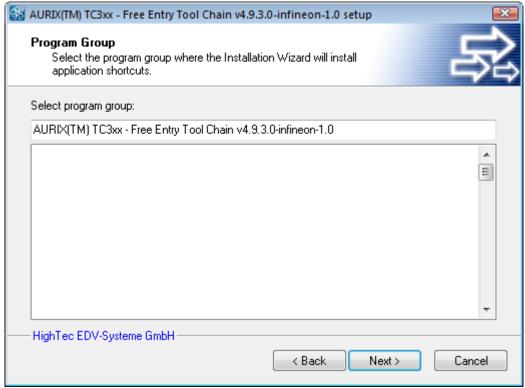


Figure 5 Set Program Group

6. Click **Next** button. (Figure 6)

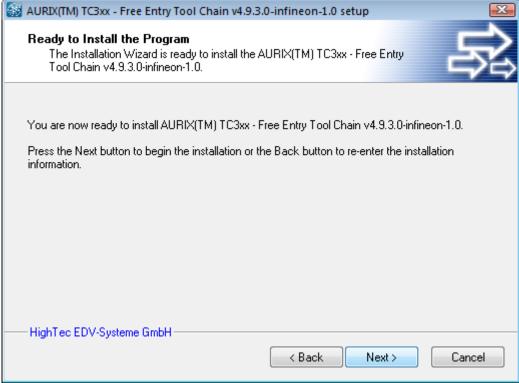


Figure 6 Ready to Install dialog

7. Click **Next**. Further dialogs inform you about the progress of installation.

Please note: For commercial development you need the full version of TriCore Development Platform.



The Free TriCore Entry Tool Chain cannot be used together with professional versions of the containing products because they are incompatible. That's why, it is not possible to use a parallel installation of the Free TriCore Entry Tool Chain together with a professional version UDE 5.0.

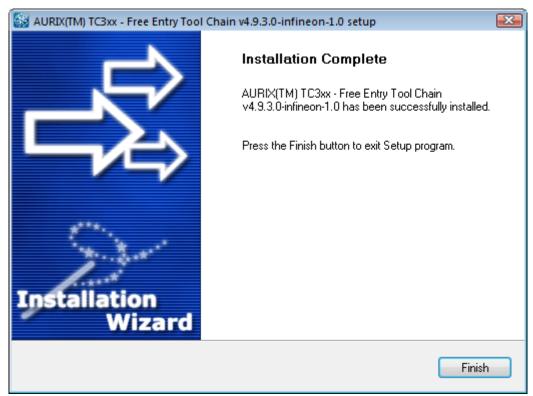


Figure 7 Installation Complete



Note: The Free TriCore Entry Tool Chain license is valid for at least one year. There are following restrictions in comparison to the professional version:

Useable for TriCore evaluation boards with on-board wiggler only, PCP assembler only, Debugger: No visualization functions at runtime, no MCDS support, no Script support, no GTM support.

Please contact tctcsupport@pls-mc.com for extending the license.

First Starting of HighTec IDE

Starting HighTec IDE

- From the Windows' Start menu, select All Programs AURIX(TM) TC3xx Free Entry Tool Chain v4.9.3.0-infineon-1.0 – HighTec IDE or use the Desktop icon HighTec IDE.
- 2. Now the Eclipse Launcher dialog appears (Figure 8).

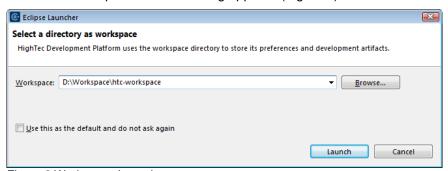


Figure 8 Workspace Launcher

- 3. Enter the path to the workspace directory e.g. D:\Workspace\htc-workspace. If the directory doesn't exist, new directory will be created; otherwise existing directory will be used as eclipse workspace. New created projects will be saved in the selected workspace directory.
- 4. You can enable the option **Use this as the default and do not ask again**. By next start last used workspace will be used, skipping the **Eclipse Launcher** dialog. If you want to use other or new workspace. Select from the **File** menu **Switch Workspace**.
- 5. Click **OK** to proceed.

The **Welcome view** appears. Initially, the HighTec IDE opens with a workbench displaying the C/C++ perspective with only the Welcome view visible. This view provides some general information and alternative ways to access the online documentation.

HighTec IDE opens with the perspective which was last used before closing, except when starting up for the very first time showing the Welcome view. Click **Get to work** to close the Welcome Screen.

6. Click the **Get to Work** on the left side of the view to go to the workbench. Assuming first start of eclipse, **HighTec perspective** (Figure 9) appears, otherwise last saved workbench layout.

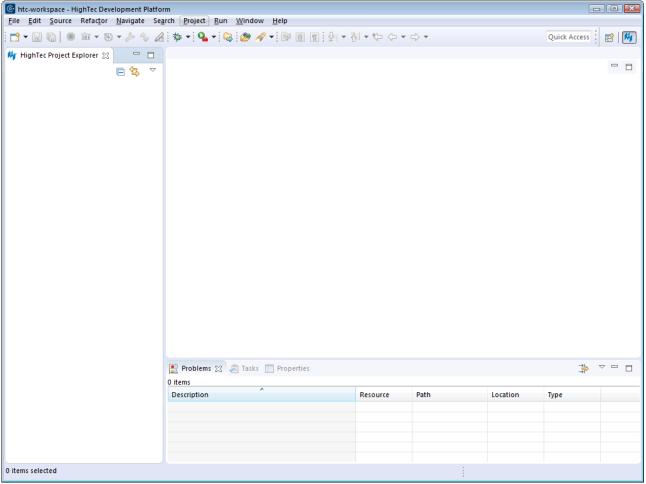


Figure 9 HighTec IDE perspective

Content Manager

The HighTec Content Manager provides easy access to the HighTec's resource cloud repository. You find there project examples, templates and other documents that help you to get up to the speed quickly. You can open the HighTec Content Manager as the separated window from the menu **Help – HighTec Content Manager**.

HighTec IDE Documentation

The documentation about the HighTec IDE is available in the Eclipse menu **Help – Help Content**.

Create an AURIX/TriCore Project

C/C++ Project wizard

This tutorial shows how to create an embedded software project with the AURIX/TriCore toolset. It lets you create your own project with an example of an analogue clock on the display of the AURIX application kit.

Set the HighTec C/C++ perspective

Before creating an AURIX/TriCore project, it is necessary to have the **HighTec C/C++** perspective on the workbench (Figure 10). By default, this should be the case when you start HighTec Development Platform, but if it is not, do the following.

To open the **HighTec C/C++** perspective

 From the Window menu select Open Perspective - Other... - HighTec. The name of the perspective is displayed in the title bar of the workbench window.

Import a sample Project

1. From the **File** menu select **New - Example** (Figure 10). The New Example wizard appears (Figure 11).

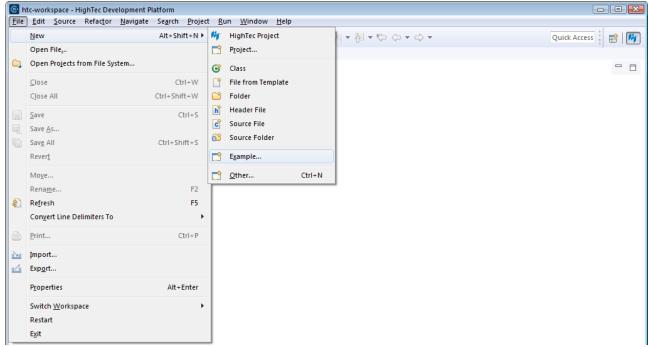


Figure 10 Menu File / New / Example

2. Select HighTec Examples and press Next.

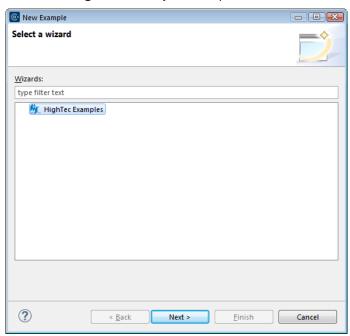


Figure 11 New Example Wizard

 The next wizard page (Figure 12) shows a selection tree containing the TriCore boards supported by the toolchain. Expand the sample node e.g. TimeDemo and select TriBoard TC26x A-Step. Press Next.

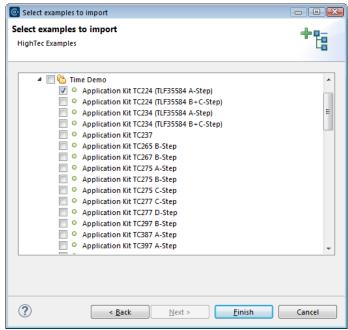


Figure 12 Examples - Hardware Selection

4. Click Finish to finish the wizard and to import the example. Figure 13 shows HighTec perspective with the new created project. To see the generated project files you may need to expand the hello project structure on the left pane. To open one generated file double-click the file in the src folder of the project structure.

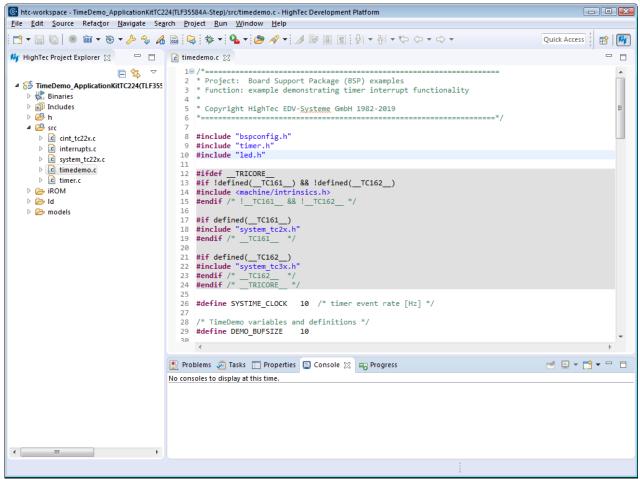


Figure 13 HighTec C/C++ Perspective with the new imported example

Start with an empty Project

To start from an empty project following the steps from the previous section Import a sample project and simply remove all header files from the h folder and the file timer.c from the src folder and delete the content of the file timedemo.c except an empty main () function.

Build the Project

When you build an AURIX/TriCore C/C++ project in HighTec Development Environment, the HighTec TriCore compiler, assembler and linker are used to compile and link all the source code and the libraries associated with the project.

The wizard generates different build targets like **iROM** (default). You can choose a build configuration by clicking the arrow of the build icon and build a target by clicking the build icon.

Meaning of build targets

> iROM Code will be located in the internal flash (default)

During the build process the sources belonging to the project will be compiled and linked. The messages occurring during the build process are displayed in the **Console window** (Figure 14). The build process should terminate without giving any errors or warnings.

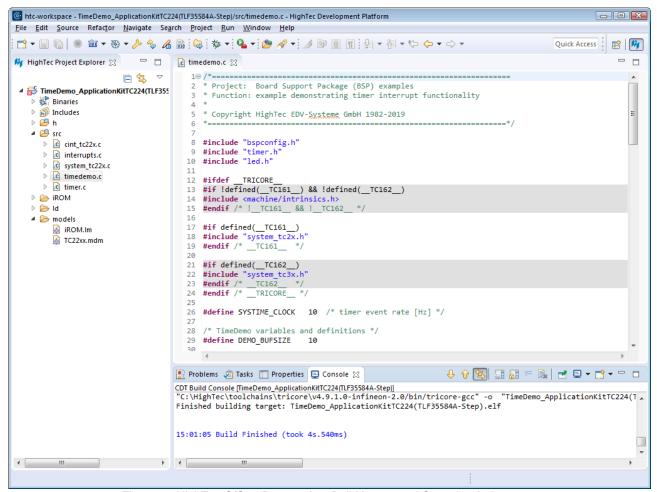
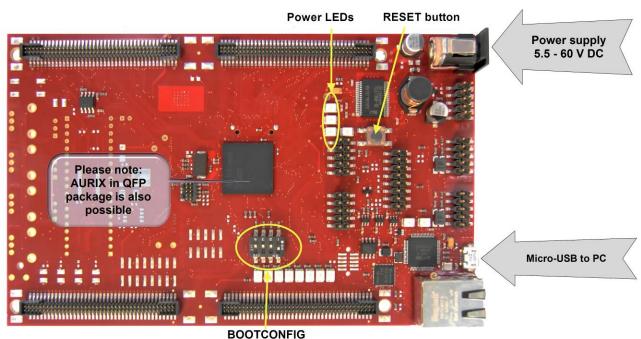


Figure 14 HighTec C/C++ Perspective: Build button and Console window

Connecting the Target

TriBoard with mounted TC38xA, TC39xA, TC39xB processor

- 1. Configure the DIP switches (1,2,3=OFF **4=ON** but for A step (!) **1=ON** 2,3,4=OFF)
- 2. Connect a DC power supply (5.5V 60V) to the TriBoard.
- 3. Connect the TriBoard to the PC via a USB cable (a cable is supplied with the Starter Kit).
- 4. Three Power Supply PS-LEDs should be on.
- 5. Press the **Reset button** (see picture below)



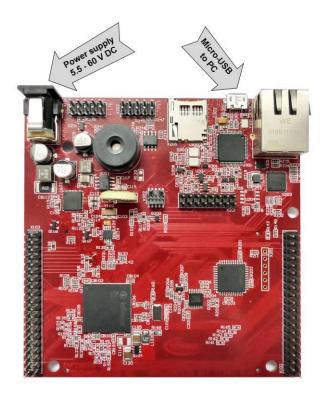
DIP switch other=OFF 4=ON
DIP switch 1=ON other=OFF (for A step!)

Figure 15 AURIX - TriBoard

Connecting the Target 17 of 42

Application Kit AURIX TC387, TC397 TFT with TC38xA, TC397A, TC397A (ADAS), TC397B

- 1. Connect a DC power supply (5.5V 60V) to the Application Kit.
- 2. Connect the Application Kit TC397 to the PC via a USB cable (a cable is supplied with the Starter Kit).
- 3. The Power Supply LED should be on.
- 4. Press the **Reset button** (see picture below)





Back side Top side

Figure 16 AURIX Application Kit TC397 TFT

TriBoard with mounted TC2D5T, TC21xA, TC22xA, TC23xA, TC26xA, TC26xB, TC27xA, TC27xB, TC27xC, TC27xD, TC29xA, TC29xB processor

- 1. Configure the DIP switches (1,2,3=OFF **4=ON** but for A step (!) **1=ON** 2,3,4=OFF)
- 2. Connect a DC power supply (5.5V 60V) to the TriBoard.
- 3. Connect the TriBoard to the PC via a USB cable (a cable is supplied with the Starter Kit).
- 4. Three Power Supply PS-LEDs should be on.
- 5. Press the Reset button (see picture below)

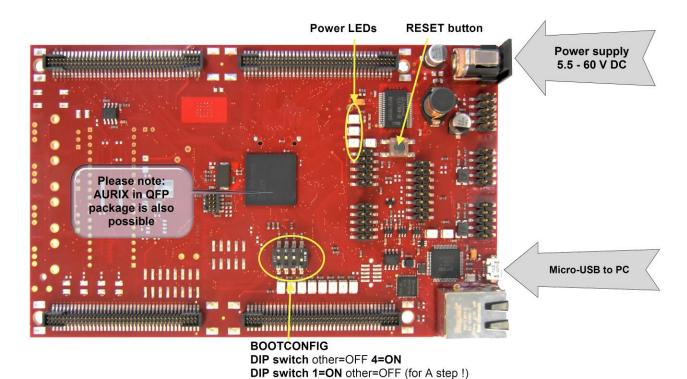
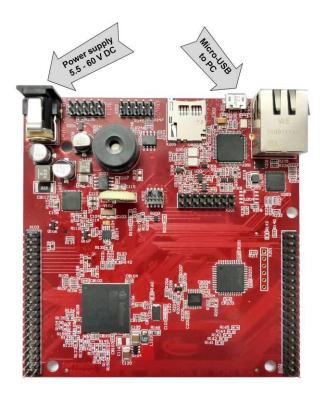


Figure 17 AURIX – TriBoard

Connecting the Target 19 of 42

Application Kit AURIX TC2X4 TFT with TC224, TC234 (TLF35584A, TLF35584B, TLF35584C)

- 1. Connect a DC power supply (5.5V 60V) to the Application Kit.
- 2. Connect the Application Kit TC2X4 to the PC via a USB cable (a cable is supplied with the Starter Kit).
- 3. The Power Supply LED should be on.
- 4. Press the **Reset button** (see picture below)



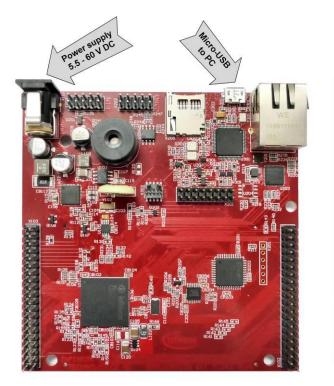


Back side Top side

Figure 18 AURIX Application Kit TC2X4 TFT

Application Kit AURIX TC2X5 TFT with TC265B, TC275A, TC275B, TC275C

- 1. Connect a DC power supply (5.5V 60V) to the Application Kit.
- 2. Connect the Application Kit TC2X5 to the PC via a USB cable (a cable is supplied with the Starter Kit).
- 3. The Power Supply LED should be on.
- 4. Press the Reset button (see picture below)





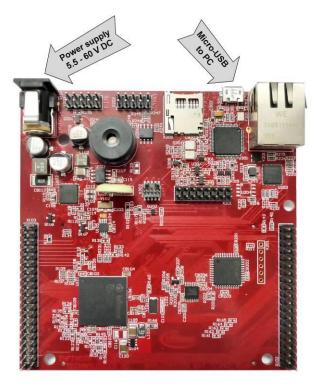
Back side Top side

Figure 19 AURIX Application Kit TC2X5

Connecting the Target 21 of 42

Application Kit AURIX TC2X7 TFT with TC237, TC267B, TC277C, TC277D, TC297B

- 1. Connect a DC power supply (5.5V 60V) to the Application Kit.
- 2. Connect the Application Kit TC2X7 to the PC via a USB cable (a cable is supplied with the Starter Kit).
- 3. The Power Supply LED should be on.
- 4. Press the **Reset button** (see picture below)





Back side Top side

Figure 20 AURIX Application Kit TC2X7

ShieldBuddy TC275C, TC275D

- 1. Configure the Power Supply Jumper to VUSB.
- 2. Connect the ShieldBuddy to the PC via a USB cable (a cable is supplied with the Starter Kit).
- 3. Three Power Supply LEDs should be on.
- 4. Press the **Reset button** (see picture below).

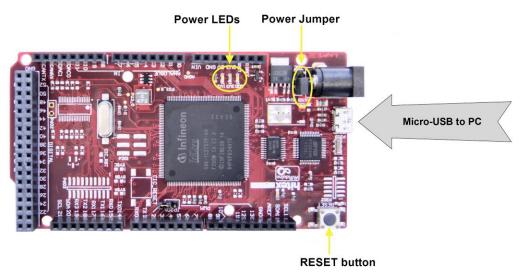


Figure 21 ShieldBuddyTC275

Connecting the Target 23 of 42

phyCORE-TC29xB with baseboard

- 1. Connect a DC power supply (5.5V 60V) to the baseboard
- 2. Connect the baseboard to the PC via a USB cable (a cable is supplied with the Starter Kit).
- 3. The Power Supply LED should be on.
- 4. Press the **Reset button** (see picture below).

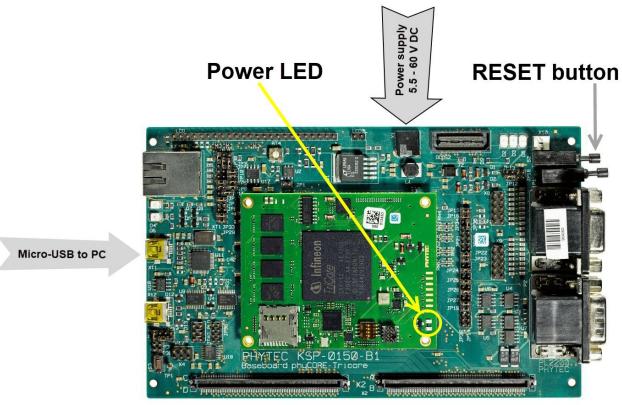


Figure 22 phyCORE - TC29xB with baseboard

phyCORE-TC39xB with baseboard

- 1. Connect a DC power supply (5.5V 60V) to the baseboard
- 2. Connect the baseboard to the PC via a USB cable (a cable is supplied with the Starter Kit).
- 3. The Power Supply LED should be on.
- 4. Press the **Reset button** (see picture below).

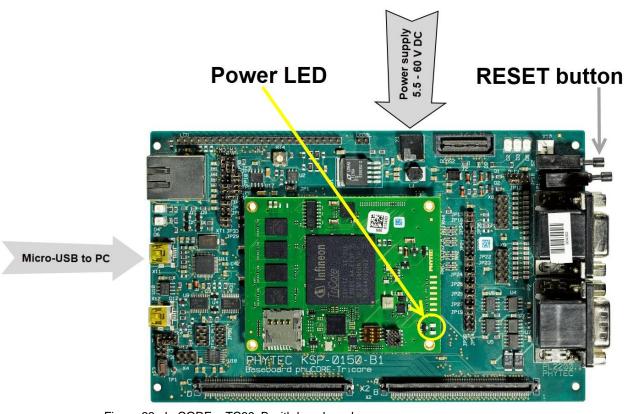


Figure 23 phyCORE - TC39xB with baseboard

Connecting the Target 25 of 42

TriBoard with mounted TC1767 processor

- 5. Configure the DIP switches (default all OFF boot from internal flash)
- 6. Connect a DC power supply (5.5V 60V) to the TriBoard.
- 7. Connect the TriBoard to the PC via a USB cable (a cable is supplied with the Starter Kit).
- 8. Three Power Supply PS-LEDs should be on.
- 9. Press the Reset button (see picture below).

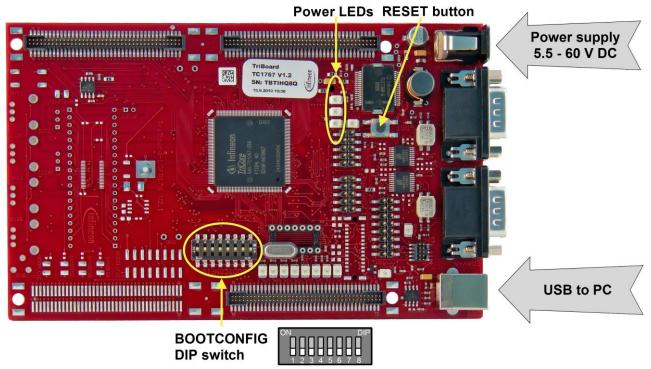


Figure 24 TC1767 - TriBoard

TriBoard with mounted TC1797 processor

- 1. Configure the DIP switches (default all OFF boot from internal flash)
- 2. Connect a DC power supply (5.5V 60V) to the TriBoard.
- 3. Connect the TriBoard to the PC via a USB cable (a cable is supplied with the Starter Kit).
- 4. Three Power Supply PS-LEDs should be on.
- 5. Press the **Reset button** (see picture below).

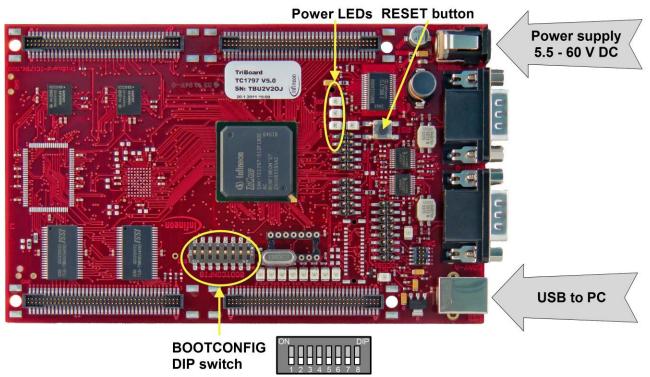


Figure 25 TC1797 - TriBoard

Connecting the Target 27 of 42

TriBoard with mounted TC1782 processor

- 1. Configure the DIP switches (default all OFF boot from internal flash)
- 2. Connect a DC power supply (5.5V 60V) to the TriBoard.
- Connect the TriBoard to the PC via a USB cable (a cable is supplied with the Starter Kit).
- 4. Three Power Supply PS-LEDs should be on.
- 5. Press the **Reset button** (see picture below).

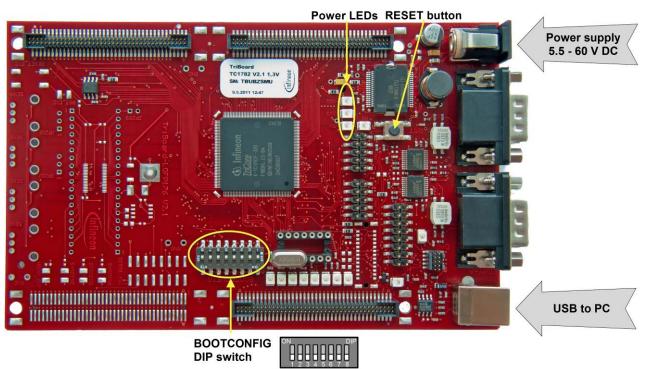


Figure 26 TC1782 - TriBoard

TriBoard with mounted TC1724 processor

- 1. Configure the DIP switches (default all OFF boot from internal flash)
- 2. Connect a DC power supply (5.5V 60V) to the TriBoard.
- 3. Connect the TriBoard to the PC via a USB cable (a cable is supplied with the Starter Kit).
- 4. Three Power Supply PS-LEDs should be on.
- 5. Press the **Reset button** (see picture below).

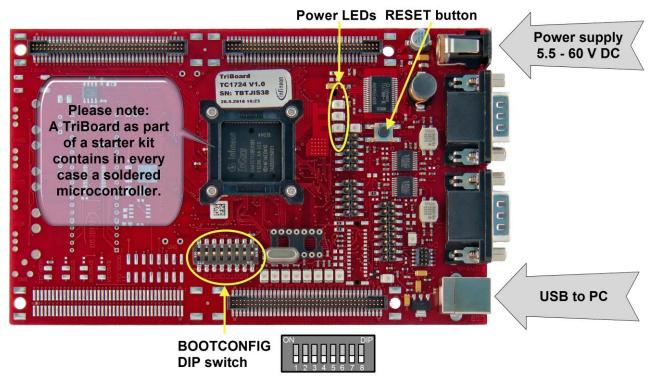


Figure 27 TC1724 - TriBoard

Connecting the Target 29 of 42

TriBoard with mounted TC1791 processor

- 1. Configure the DIP switches (default all OFF boot from internal flash)
- 2. Connect a DC power supply (5.5V 60V) to the TriBoard.
- 3. Connect the TriBoard to the PC via a USB cable (a cable is supplied with the Starter Kit).
- 4. Three Power Supply PS-LEDs should be on.
- 5. Press the Reset button (see picture below).

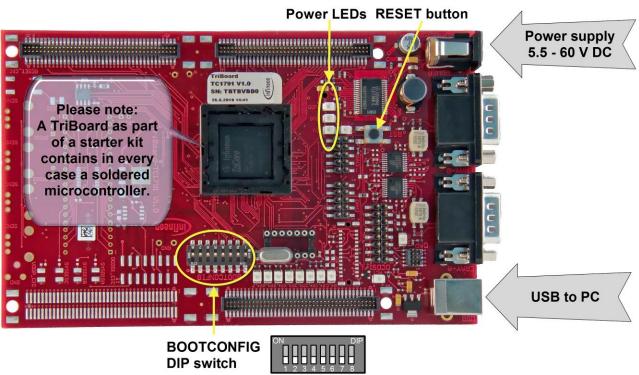


Figure 28 TC1791 - TriBoard

TriBoard with mounted TC1793 processor

- 1. Configure the DIP switches (default all OFF boot from internal flash)
- 2. Connect a DC power supply (5.5V 60V) to the TriBoard.
- 3. Connect the TriBoard to the PC via a USB cable (a cable is supplied with the Starter Kit).
- 4. Three Power Supply PS-LEDs should be on.
- 5. Press the **Reset button** (see picture below).

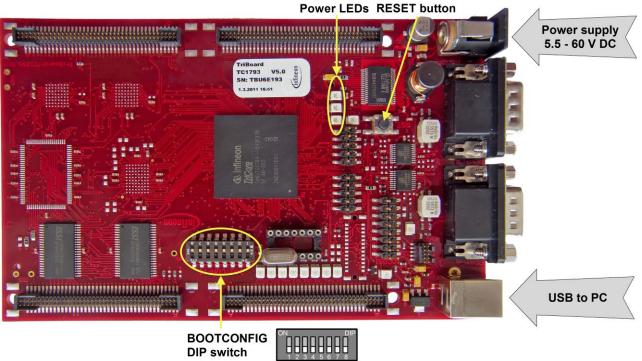


Figure 29 TC1793 - TriBoard

Connecting the Target 31 of 42

TriBoard with mounted TC1798 processor

- 1. Configure the DIP switches (default all OFF boot from internal flash)
- 2. Connect a DC power supply (5.5V 60V) to the TriBoard.
- 3. Connect the TriBoard to the PC via a USB cable (a cable is supplied with the Starter Kit).
- 4. Three Power Supply PS-LEDs should be on.
- 5. Press the **Reset button** (see picture below).

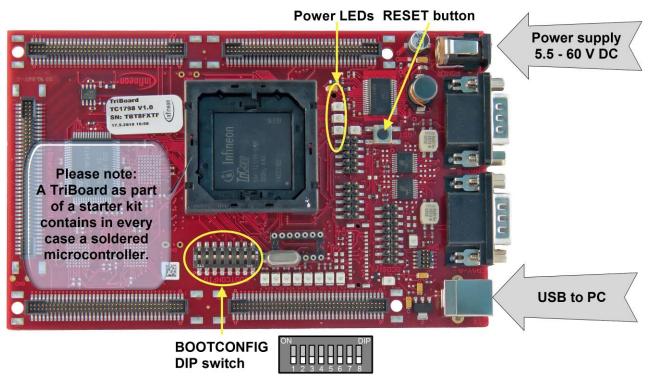


Figure 30 TC1798 - TriBoard

phyCORE-TC1793 with baseboard

- 1. Connect a DC power supply (5.5V 60V) to the baseboard
- 2. Connect the baseboard to the PC via a USB cable (a cable is supplied with the Starter Kit).
- 3. The Power Supply LED should be on.
- 4. Press the **Reset button** (see picture below).

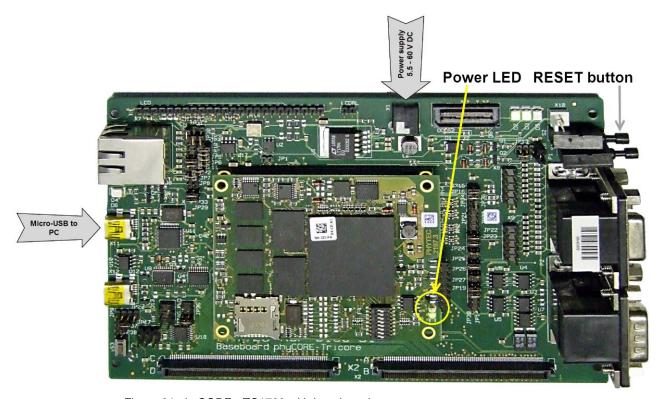


Figure 31 phyCORE - TC1793 with baseboard

Connecting the Target 33 of 42

Debugging your Application

Start a Debug Session

1. Click at the debug button and select **Debug Configurations** ... (Figure 32).

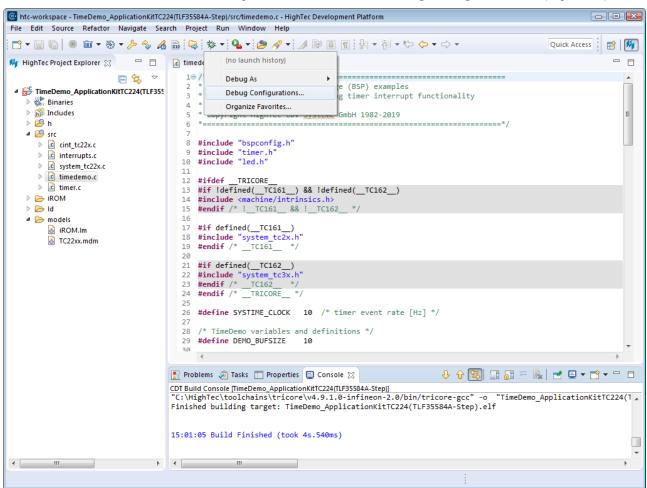


Figure 32 Select Debug Configurations dialog via Debug button

2. The **Debug Configurations** dialog appears. Select **Universal Debug Engine** as debug type (Figure 33).

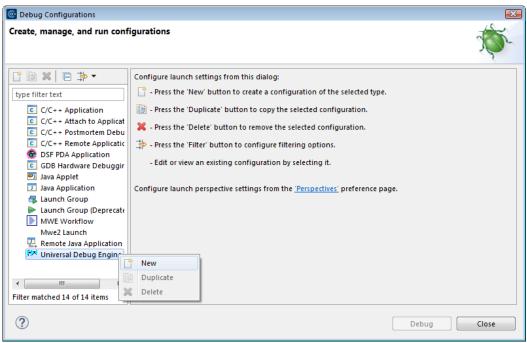


Figure 33 Debug Configurations dialog

3. Press the **New launch configuration** button to create a new debug launch configuration for Universal Debug Engine (Figure 34).

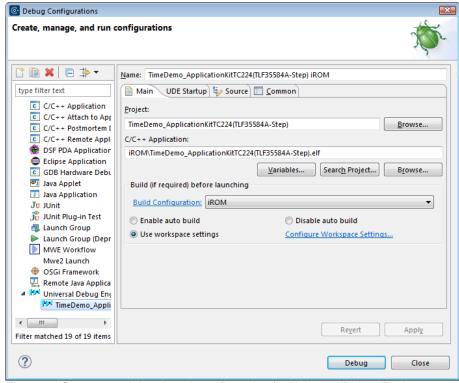


Figure 34 Create new debug launch configuration for Universal Debug Engine

4. A new debug configuration **TimeDemo_ApplicationKitTC224(TLF35584A-Step) iRom** is created. All input fields are pre-filled with appropriate values (Figure 35).

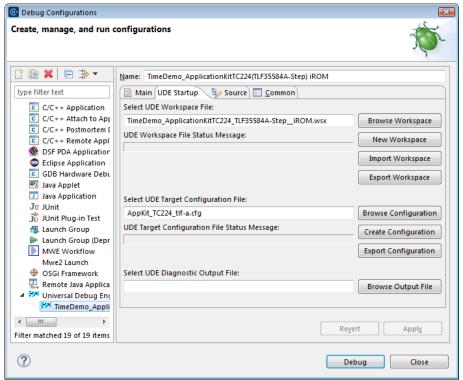


Figure 35 Create new debug launch configuration for Universal Debug Engine

5. Push **Debug** to start UDE perspective. Later you can use the Debug icon ** from the menu.

Note: If a **problem occurred** pop-up window appears, click **OK**, check the USB cable connection, reset the board with the reset button, and start again the Debug session

6. If you built an **iROM** version of your application, the **UDE Memory Programming Tool** will appear after launching the **UDE perspective** (Figure 36).

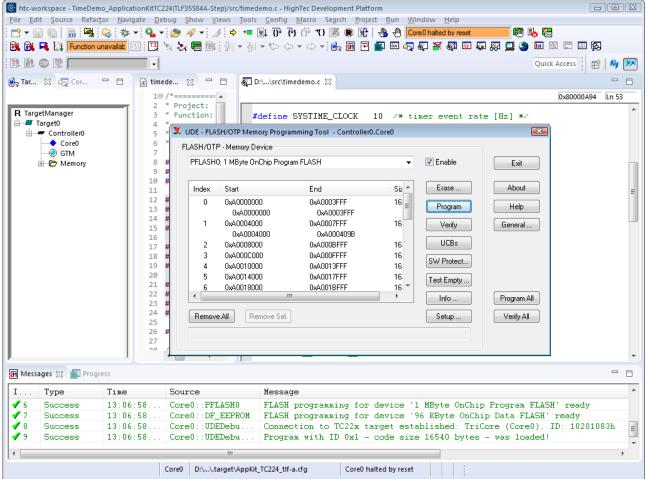


Figure 36 UDE Memory Programming Tool

7. Start flashing with the **Program** button. A progress dialog appears (Figure 37). After successful programming close both dialogs.

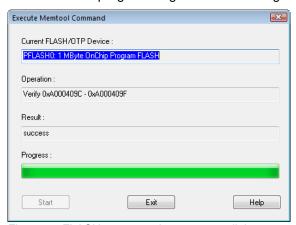


Figure 37 FLASH programming progress dialog

From the <u>Debug</u> menu, select <u>Step over subroutine</u>, or click on the <u>Step over button</u> in the toolbar. At this moment your application is executing but stopped on the function main(). This means the C startup code has been executed completely. The Editor view shows the C source files of your application and a yellow arrow shows the line where the execution has stopped (Figure 38).

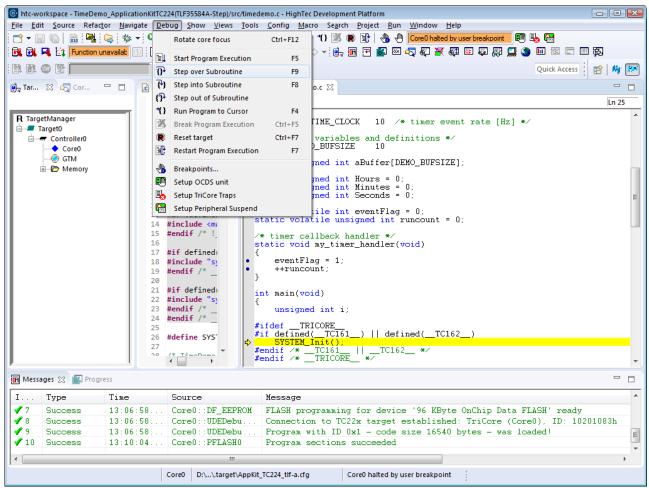


Figure 38 First step to main() function

Stepping through the Application

- 1. From the <u>Debug</u> menu select **Step over subroutine** or click on the **Step over** button in the toolbar. The yellow arrow in the Program view moves to the next statement.
- To set or clear breakpoints click on the markers in the info margin of program window
- 3. To see watch or local variables please open the accordingly window via the **View** menu.
- 4. To run your application, select **Start Program Execution** from the **Debug** menu or click on the Start Program button in the toolbar. **Now an analogue clock should be visible on the display of the application kit.**
- 5. To restart your application, select **Restart Program Execution** from the **Debug** menu, or press **F7** or click on the Restart button in the toolbar.

Using the UDE debugger

The main() and further features of UDE are described in the UDE Manual, available via UDE Welcome Page. Open it via menu Window - Show View - Other ... - Universal Debug Engine - UDE Welcome Page and push the UDE Manual button.

Figure 39 shows an UDE example configuration with Peripheral Registers, Call stack, Watch window, and Memory window. All features are described in the **UDE Manual**.

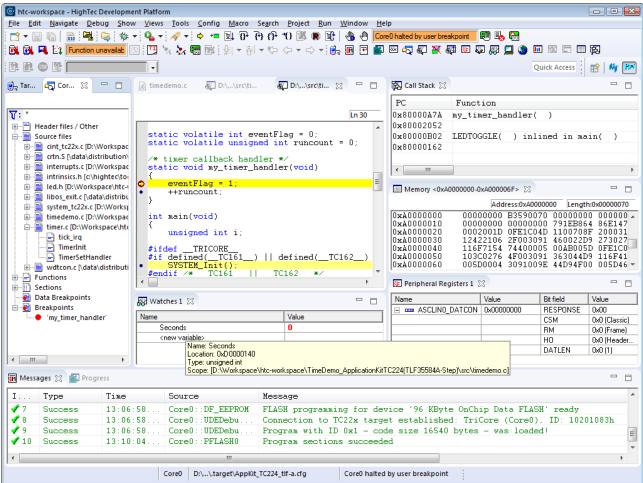


Figure 39 Universal Debug Engine perspective

End the Debug Session

From the **File** menu select **Close Workspace** or click on the Close Workspace button in the toolbar. The current perspective is switched back to the HighTec C/C++ perspective.

Summary

Having followed the step-by-step instructions the development environment comprising AURIX TC3xx Free Entry Tool Chain and AURIX/TriCore Family Evaluation Board will have now been installed. After creating and compiling a simple program, it is successfully executed on the Evaluation Board.

You now have a running environment that could be used for further development or evaluation work.

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