

Project Creation Guide for DSCs

This guide will assist you when developing any part of the **56F82xxx/56F84xxx series**.

Product	MCUXpresso SDK	MCUXpresso Config Tools	CodeWarrior	Processor Expert integrated into CodeWarrior	**Quick Start Tool external tool to CodeWarrior
			CW11.1	CW11.1	CW11.1
56F82xxx	COMING	COMING	✓	✓	✓
56F84xxx	Q1, 2022	Q1, 2022	✓	✓	✓

(**Not recommended for new developments)

Please choose between the following three options. Option #1 is the recommended option.

Option #1: Create a Processor Expert® based project within CW11.1

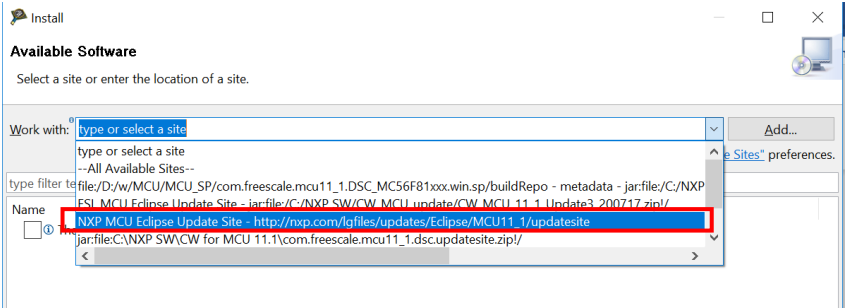
Processor Expert® software is available as part of the CodeWarrior® tool suite or as an Eclipse-based plug-in feature for installation into an independent Eclipse environment. Processor Expert® Software is a development system to create, configure, optimize, migrate, and deliver software components that generate source code for our silicon.

Use this option when developing any part of the **56F82xxx/56F84xxx series** to create a Processor Expert® based project within CW11.1.

Follow these steps to start the development:

1. Install the [CodeWarrior® for MCUs \(Eclipse IDE\) for Microcontrollers V11.1 and any required patches](#), Processor Expert as part of the CodeWarrior tool suite is available now. The following steps show how to install the patches.

- a. Launch CodeWarrior 11.1, then go to **Help -> check for updates**.
- b. Select the update sites.



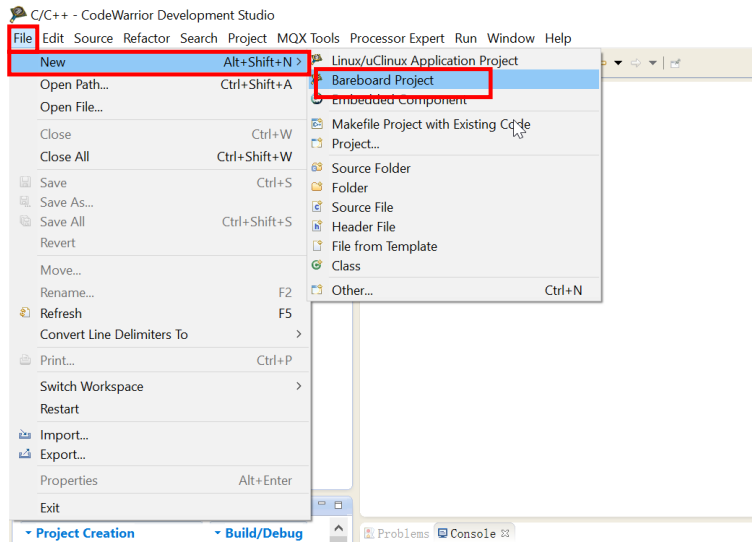
- c. Check the boxes for 'MCU v11.1 DSC Service Pack for DSC MC56F826xx', 'MCU v11.1 Updates' and 'MCU v11.1 Updates for DSC'. Uncheck the box next to 'Contact all update sites during install to find required software'. then click **Next**.

Project Creation Guide for DSCs

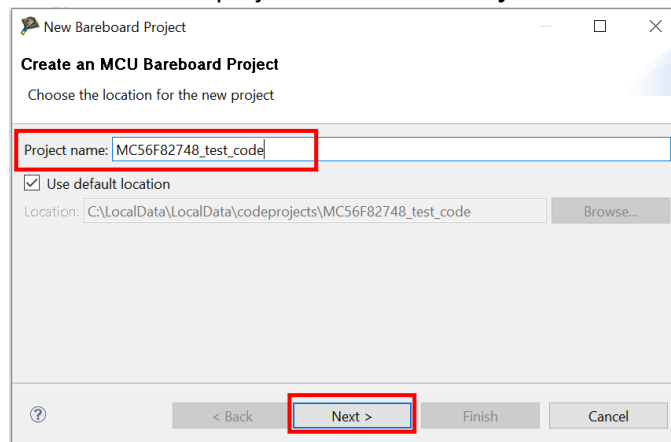
- d. Follow the prompts until it completes the installation and prompts for restart of tool, click **Yes** and the tool will restart and the installation of the updates is complete.

2. Follow the steps to create a Processor Expert based project (take 56F82748 for example)

- a. Start the CodeWarrior IDE and open the new project wizard by clicking **File -> New -> Bareboard project** or clicking the tool bar **New icon** and select **Bareboard project**, then click **Next**.



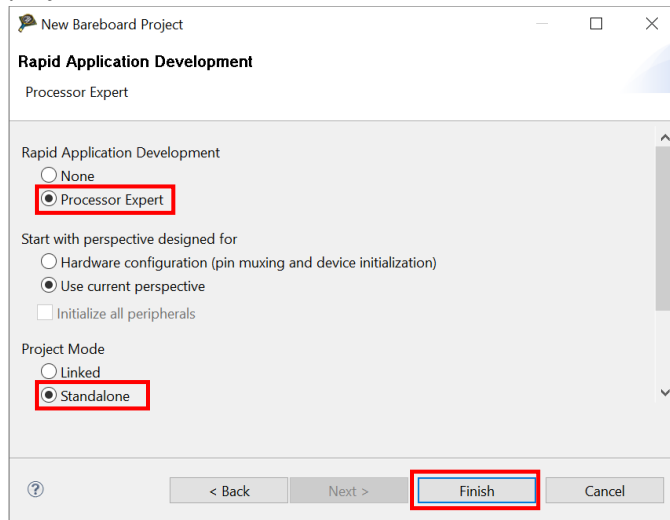
- b. Enter the desired project name in the **Project name** field, then click **Next**.



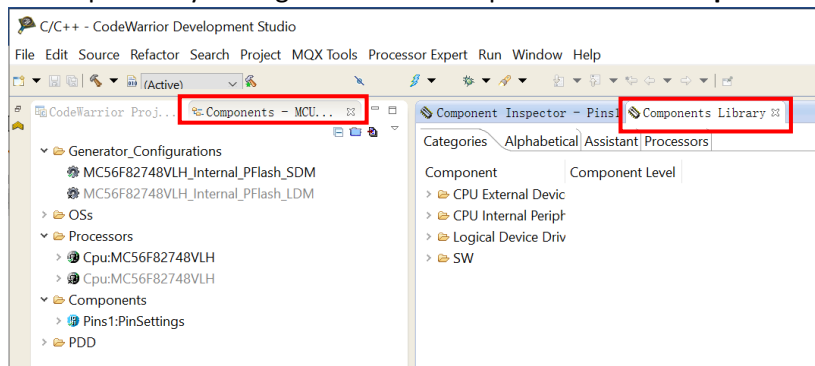
- c. In the device page, expand the tree control and select **56800/E (DSC) -> MC56F827xx -> MC56F82748**, then click **Next**.
- d. In the connection page, select the desired connections, then click **Next**.
- e. In the language page, select **C** language, then click **Next**.

Project Creation Guide for DSCs

- f. Choose **“Processor Expert”** under rapid application development block, and change the project mode to **“standalone”**. Click Finish, a new processor expert based project is created.



- g. The Processor Expert view is opened automatically and provides a GUI interface to easily configure pins, clocks, peripherals and middleware such as FreeMASTER. Start development by adding the desired components from **Components Library**.



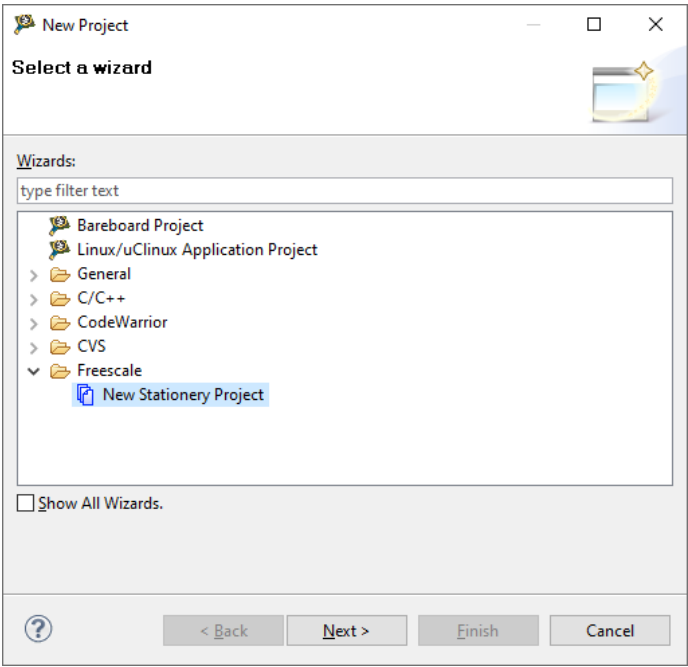
Option #2: Create a Quick Start based project within CW11.1

Use this option when developing any part of the **56F82xxx/56F84xxx series** to create a Quick Start based project within CW11.1. The DSC56800EX_Quick_Start tool is a software environment for the embedded applications development. The Quick Start tool is provided for legacy users.

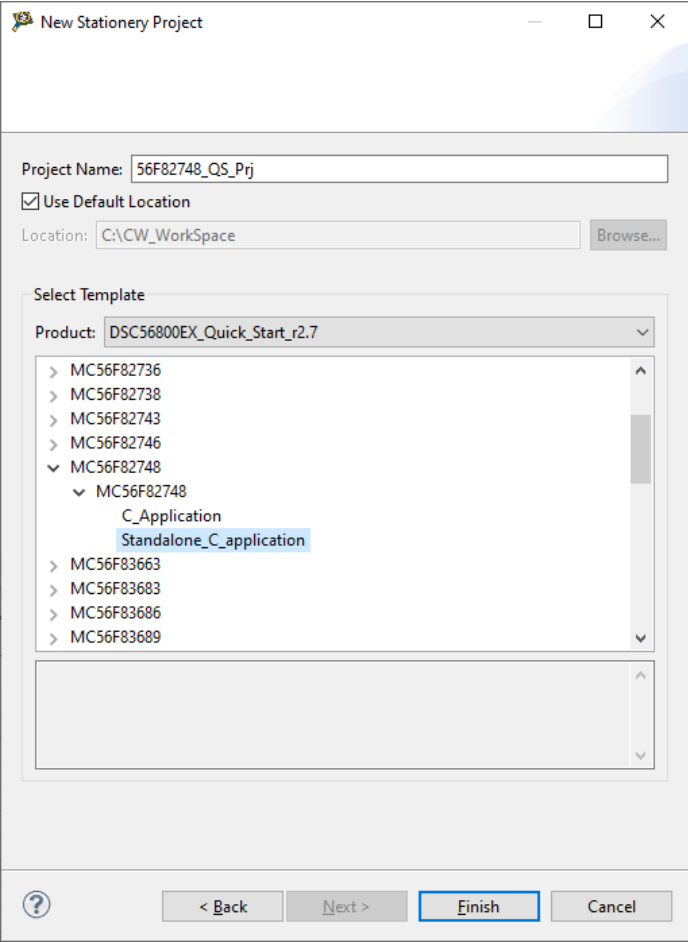
Follow these steps to start the development:

1. Install the [CodeWarrior® for MCUs \(Eclipse IDE\) for Microcontrollers V11.1](#) and any required patches
2. Install and configure [Quick Start](#). Integrate Quick Start stationery wizard into CodeWarrior following the Quick Start installation guide.
3. Open CodeWarrior, click on **File->new->Project...**, choose **“New Stationery Project”** and click **Next**.

Project Creation Guide for DSCs



- 4. Type project name, and choose **Standalone_C_application** under the desired part. Click **Finish**.



Project Creation Guide for DSCs

5. A standalone template project is generated. Now the Quick Start tool can be invoked to configure the peripherals and generate initialization codes.

In order for DSC56800EX_Quick_Start to integrate itself with the development tools, the CodeWarrior tools should be installed prior to the installation of the DSC56800EX_Quick_Start tool.

Project Creation Guide for DSCs

Option #3: Create a new project within CW11.1

Use this option when developing any part of the **56F82xxx/56F84xxx series** without Processor Expert® or Quick Start.

Follow this step to start the development:

1. Install the CodeWarrior® for MCUs (Eclipse IDE) for Microcontrollers V11.1 and any required patches.
2. Create project with the new project wizard as described in option #1. The difference is that Processor Expert is not selected in step f.
3. Click Finish in below figure. A new project without Processor Expert or Quick Start support is generated.

