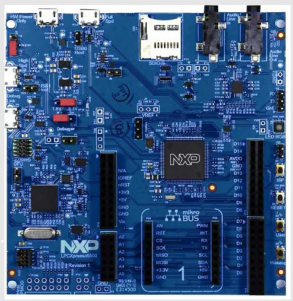

NXP MCUXWQS MCUXpresso Config Tools User Guide

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MCUXWQS

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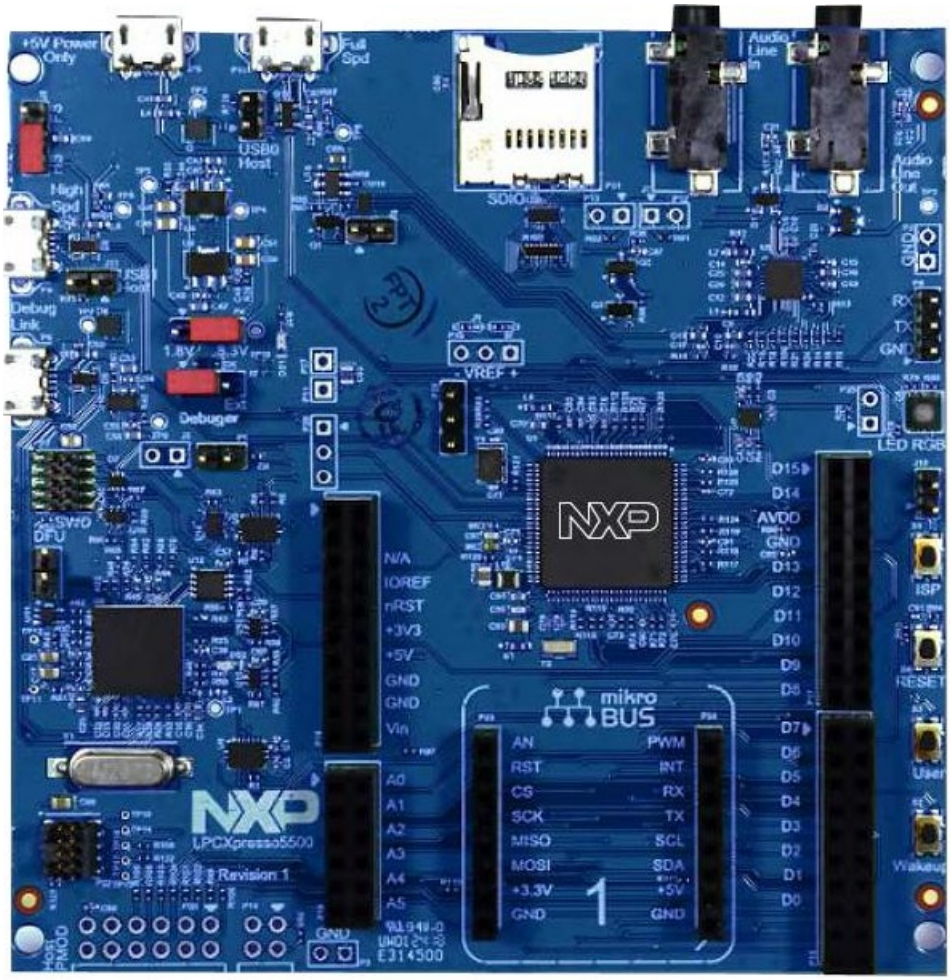


Introduction

MCUXpresso Config Tools is a set of tools for the configuration of NXP Cortex-M processors. In order to showcase some of its abilities, a simplified version of its Pins and Clocks tools is available online, at http://mcuxpresso.nxp.com

- Pins tool allows you to configure pins routing and electrical properties,
- Clocks tool allows you to configure system clocks.

You can use the tools to evaluate chip features and capabilities and generate initialization code.

Minimum System Requirements

The following lists the minimum system requirements to run the software:

- Internet connection for dynamic download from processor database
- Java Script enabled web browser
- Web Browser versions: Chrome 38
- Display with resolution 1024 x 768

2 Start MCUXpresso Config Tools

You can inspect device configuration in the online version of Pins and Clocks tools once you have selected a

device, board, or a kit.

- Visit mcuxpresso.nxp.com
- Select Select Development Board and log in.
- Select the device of your choice from the Select a Device, Board, or Kit dropdown list or filter by name in the Search by Name field.
- Once device is selected, select the Explore selection with Pins tool to open the device configuration in Pins tool, or Explore selection with Clocks tool to open it in the Clocks tool

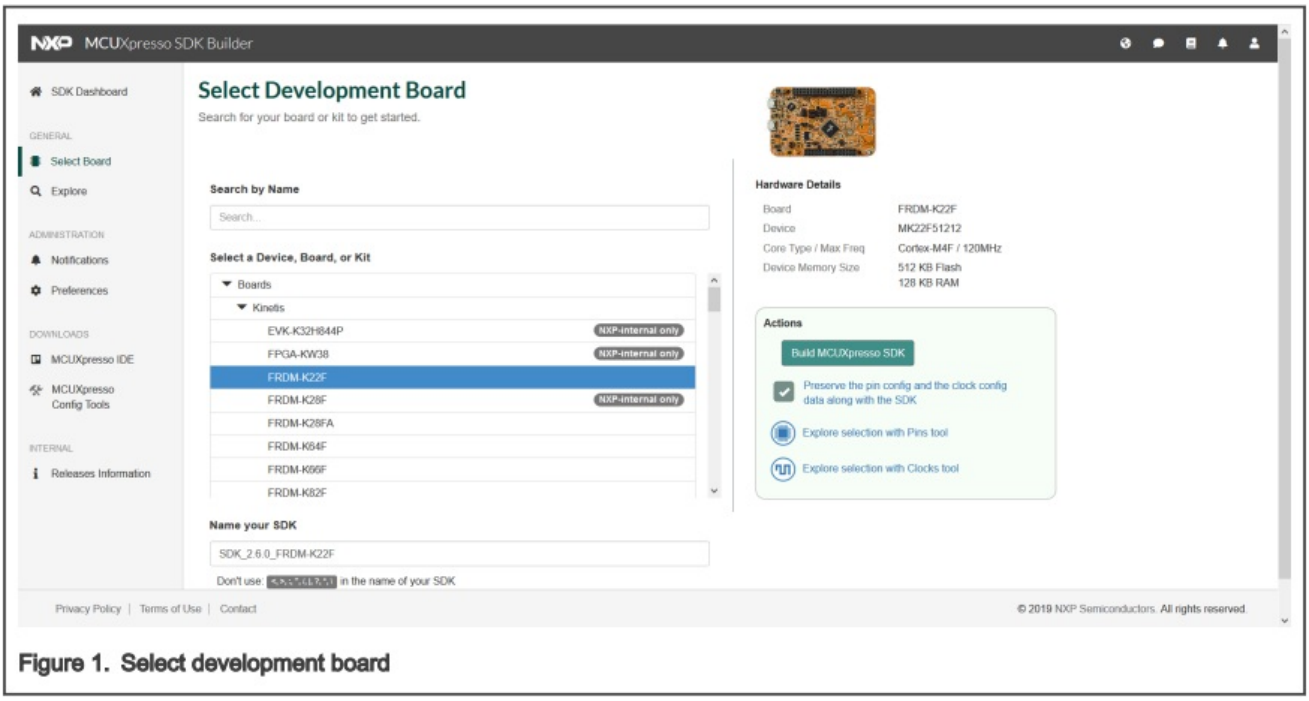
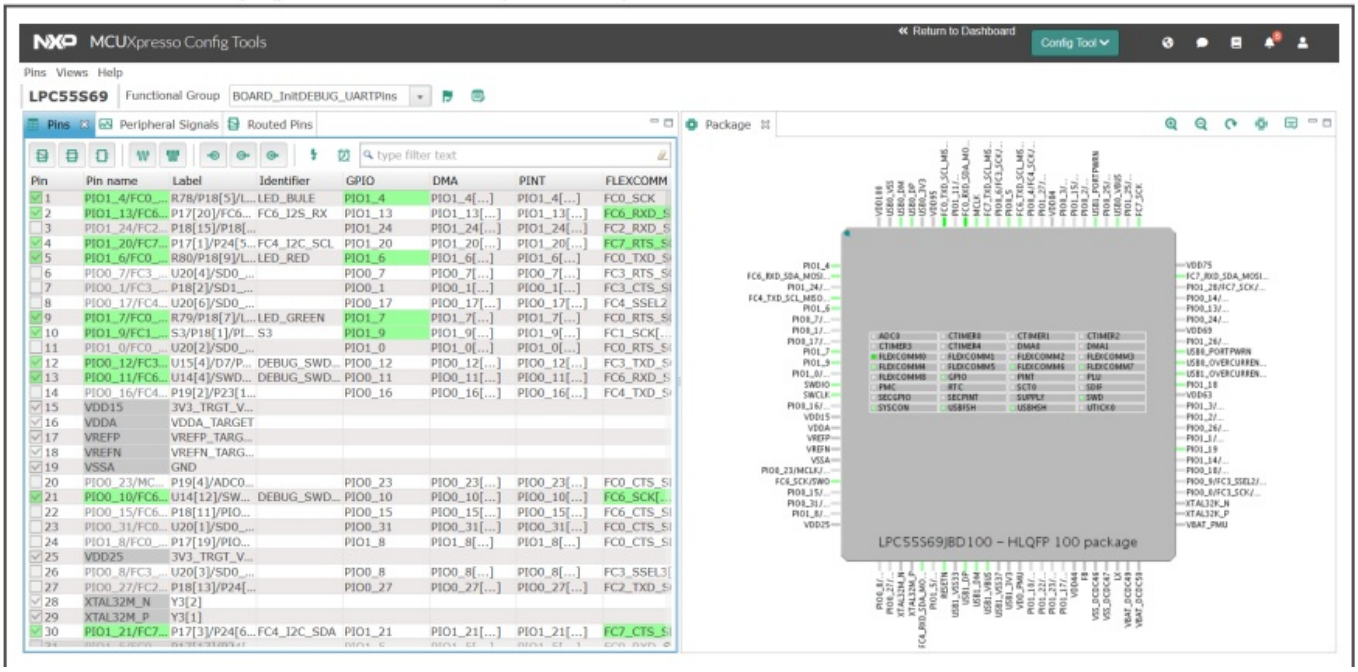


Figure 1. Select development board

Select development board

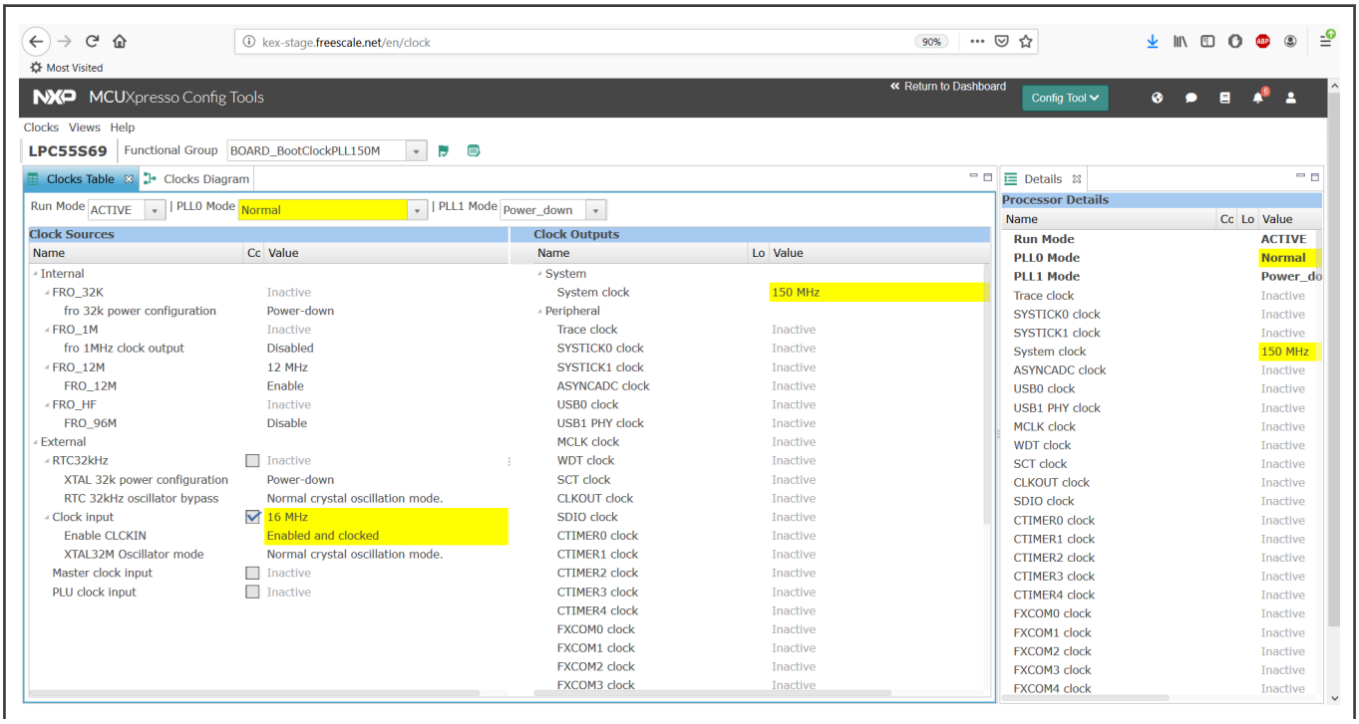
Pins Tool

In the Pins tool, you can display and configure the pins of the processor. Basic configuration can be done in Pins, Peripheral Signals, or Package views. More advanced settings (pin electrical features) can be adjusted in the Routed Pins view



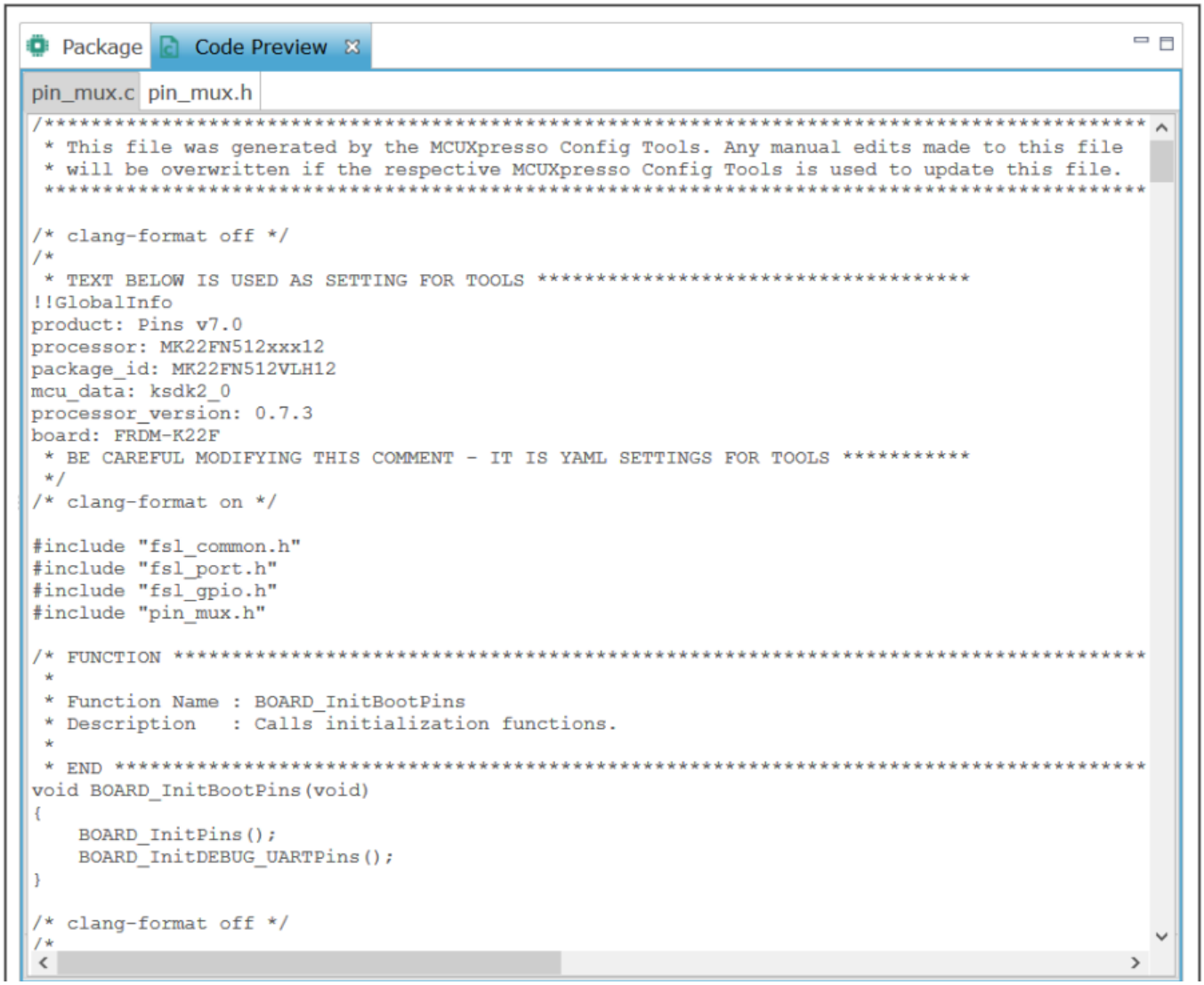
Clocks Tool

In the Clocks tool, you can display and modify clock sources and outputs settings in the Clocks Table view. Advanced settings can be adjusted in the Clocks Diagram and Details views. Global settings of the clocking environment such as run modes, MCG modes and SCG modes can be modified in Clocks Table, Clocks Diagram, and Details views.



Generate code

To see generated code, open Code Preview view by selecting Views > Code Preview from the Main Menu. The source code is updated automatically after every change. You can copy-paste the generated code or download a ZIP file by selecting Pins > Export from the Main Menu.



Code Preview

The generated code uses MCUXpresso SDK for peripheral initialization, so it is necessary to download device specific SDK package to build it. Supported toolchains are:

- MCUXpresso IDE
- IAR Embedded Workbench
- Keil µVision
- Arm GCC
- Kinetis Design Studio

Revision history

Revision number	Date	Substantive changes
0	23 June 2021	Initial release
1	22 December 2021	Minor changes

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Documents / Resources

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References

- **Welcome | MCUXpresso SDK Builder**

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