

Z20K14xM Freertos User Guide

Supports all Z20K14xM devices

Contents

1 Overview

The Z20K14xM FreeRTOS release package provides FreeRTOS source code and the porting layer on Z20K14xM microcontrollers to simplify and accelerate application development. This user guide explains how to use the FreeRTOS on Z20K14xM product.

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2 Z20K14xM FreeRTOS Introduction

The FreeRTOS packages contains Amazon FreeRTOS source code and Z20K14xM porting code and its example.

RTOS mainly contains:

- FreeRTOS source code
- Z20K14xM porting code

Docs folder contains:

- Z20K14xM FreeRTOS User Guide
- Z20K14xM FreeRTOS Release Notes

Examples folder contains:

- FreeRTOS example IAR project.

3 How to work with this package

3.1 Build Application Project

1. Copy the **Examples** and **RTOS** directories to the SDK root path as below:



Figure 3-1 Copy examples and RTOS

2. Open the FreeRTOS example.
3. Click **Make** to build the project.

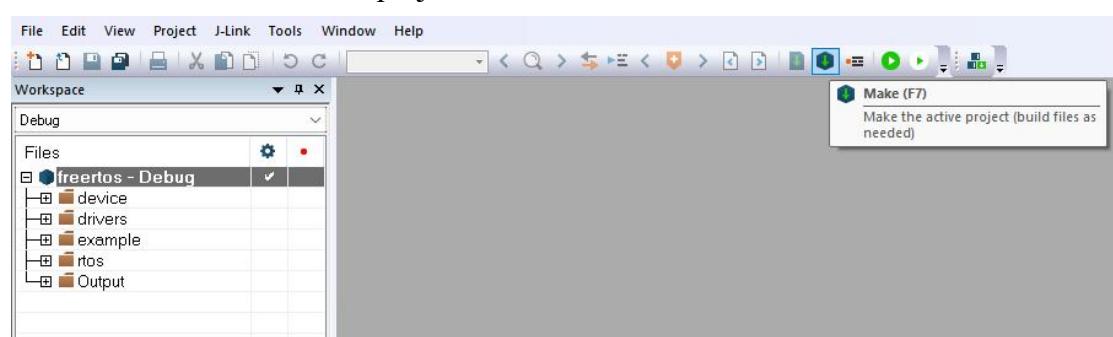
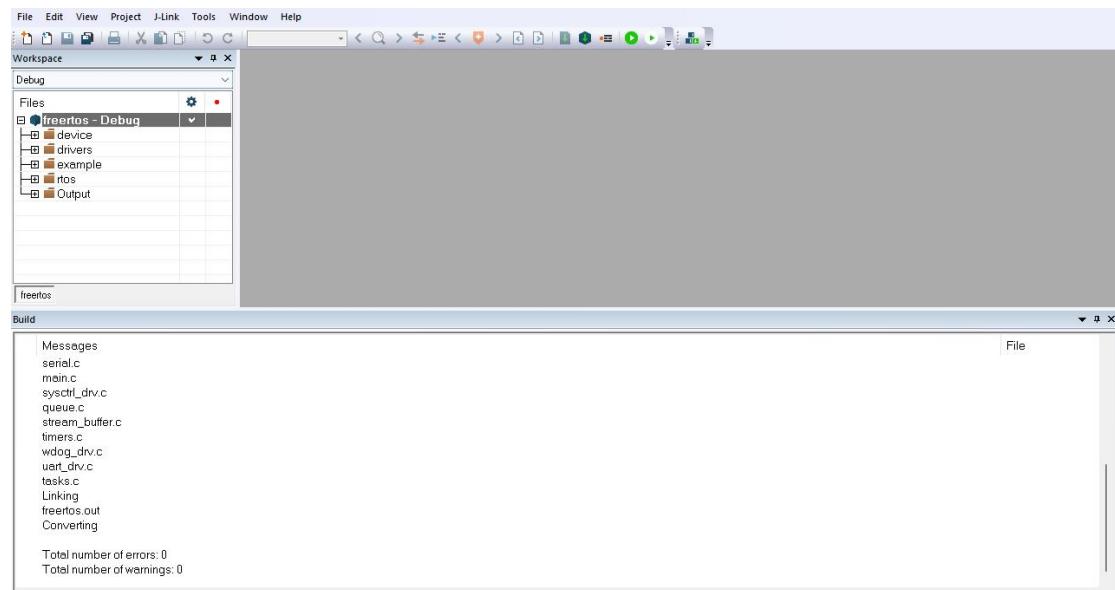


Figure 3-2 Make project

4. After building you will get the build result with 0 warnings and 0 errors.



3.2 Downloading to target device

For downloading and debug project , please refer to the **Z20K14xM SDK Quick Start Guide** doc.

4 FreeRTOS example

This demo demonstrates to show how to use FreeRTOS tasks, it creates two tasks **queueSendTask** and **queueReceiveTask**. The **queueSendTask** send value of “100” to queue in every 1 second. After **queueReceiveTask** receive the right value from the queue, it will toggle the green led pin. So user will see the green led shrink in every 1 second.

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