

Express Startup Guide for Luminary Micro Stellaris™ Microcontrollers

Keil RealView Development Kit

1

Purpose. This Express Startup Guide is designed to help you use the ThreadX demonstration for the Luminary Micro Stellaris Family of development boards featuring the Cortex-M3 processor. The supplied demonstration utilizes the Keil RealView Development Kit. This guide assumes you have already installed and setup the Keil RealView tools and the Luminary Stellaris development board. If you have not, please refer to the ***Luminary Micro Quickstart*** to setup your development environment.

2

About the Demonstration. The ThreadX demonstration consists of a simple six thread application that utilizes many of the advanced and yet easy-to-use features of ThreadX. The entire demonstration application (defined in ***demo_threadx.c***) and ThreadX require less than 7KB of Flash and less than 4KB of RAM.

3

Loading the Demonstration. Loading the ThreadX demonstration into Flash is easy. Simply open the ***ThreadX_Demo.Uv2*** project and select the “**LOAD**” button. You should now observe the ThreadX demonstration being programmed into the Flash. After the “LOAD” completes, you are now ready to run the application by selecting the “**Start/Stop Debug Session**” button. You should now observe debugger views showing the demonstration entry point. You are now ready to run the demonstration!

4

Modifying the Demonstration. The demonstration project contains a limited version of the ThreadX system library file ***ThreadX_Library.lib***. You are free to modify the ***demo_threadx.c*** application or even write a completely new ThreadX application. However, please note that the supplied limited ThreadX library allows a maximum of 10 threads, 1 of each type of memory pool, and a maximum of 2 for each of the remaining ThreadX objects.

5

Additional Resources. Please contact us if you would like a free, 30-day full evaluation copy of ThreadX, have any questions, or have interest in our NetX, FileX, USBX, or PEGX products. The ThreadX User Guide as well as those for the rest of our products can be downloaded from our web site. Please visit us today at: www.rtos.com to download your copy!

If you have any questions, please don't hesitate to ask us!