

Express Startup Guide for Cortex-A9 SMP

IAR Embedded Workbench

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Purpose. This Express Startup Guide is designed to help you install and use ThreadX SMP for the Cortex-A9 microprocessor using the IAR Embedded Workbench development suite. This guide, the ***readme_threadx.txt*** file on the distribution disk, and Chapter 2 of the ***ThreadX_User_Guide.pdf*** file contain more detailed information on getting started.

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Installation. ThreadX SMP for the Cortex-A9 is distributed on a single CD-ROM compatible disk. The entire source code distribution and ***readme_threadx.txt*** file can be found in the ThreadX sub-directory. To install ThreadX on your hard-disk, either run the supplied installer program ***Setup.exe*** or copy the distribution from the CD manually. To copy the ThreadX distribution manually, make a ThreadX directory on your hard-disk (we recommend C:\threadx\cortex-a9_smp\iar) and copy to it all the contents of the ThreadX sub-directory on the distribution disk. The following is an example MS-DOS copy command from the distribution ThreadX directory:

```
D:\threadx> xcopy /S *.* C:\threadx\cortex-a9_smp\iar
```

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Building ThreadX SMP. In order to build the ThreadX SMP library first load the ThreadX SMP project workspace ***threadx.eww***, which is located inside your ThreadX SMP directory. Building the ThreadX SMP library is easy; simply select the ***tx*** project followed by the build button. You should now observe the compilation and assembly of the ThreadX SMP library. This project produces the ThreadX SMP library file ***tx.a***.

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Demonstration System. You are now ready to build the ThreadX SMP Cortex-A9 demonstration that executes on the Ambarella evaluation board. To build the demonstration select the ***demo_threadx*** project and then select the build button. You should now observe compiling and linking of the ThreadX SMP demonstration. You are now ready to execute the demonstration on the Ambarella evaluation board. Please also review the ***readme_threadx.txt*** file for additional information about the demonstration and other demonstrations on this distribution.

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