

## ThreadX RTOS and NetX Duo TCP-IP Stack Enhance Cortex-M4 Performance



[Express Logic](#), [1] a worldwide leader in royalty-free real-time operating systems (RTOS), announced that it has ported its popular [ThreadX RTOS](#) [2] and [NetX TCP/IP stack](#) [3] to support a wide range of processors based on [ARM's Cortex-M4](#) [4]. ThreadX has been deployed in over 1 billion electronic products in the areas of consumer electronics, medical devices, and industrial control systems—systems where Cortex-M4 is an ideal fit. NetX Duo has achieved [near-wire speed](#) [5] on Cortex-M4-based platforms from Freescale and STMicroelectronics.

The ARM Cortex-M4 processor is the latest embedded processor by ARM specifically developed to address digital-signal control markets that demand an efficient, easy-to-use blend of control and signal-processing capabilities. The combination of high-efficiency signal-processing functionality with the Cortex-M family's low power, low cost, and ease of use makes it an ideal, flexible solution for motor control, automotive, power management, embedded audio and industrial automation markets.

“ARM's Cortex-M4 processor brings floating point and DSP to the already powerful M3, which is extremely popular among our customers,” commented William E. Lamie, President of Express Logic. “We have seen strong customer demand for ThreadX on M4-based processors from our semiconductor partners, and we expect Cortex-M4 to become one of our most popular ports of ThreadX.”

Express Logic's ThreadX RTOS is a small, fast, royalty-free RTOS that provides priority-based preemptive scheduling, optimized context switching, and an intuitive, easy-to-use API. NetX Duo is Express Logic's high-performance dual IPV4/IPv6

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TCP/IP stack, that has been shown to deliver near-wire speed on Cortex-M4 platforms, including Freescale's Kinetis K40/K60 and STMicroelectronics' STM32F407. In addition, ThreadX supports all other announced Cortex-M4-based processors, including Atmel's AT91SAM4S and NXP's LPC43xx.

## Free Demos

Free trial demo copies of ThreadX for a variety of Cortex-M4-based processor boards can be downloaded from: [www.rtos.com/downloads/threadx\\_demo](http://www.rtos.com/downloads/threadx_demo) [6].

## Pricing and Availability

ThreadX for Cortex-M4 is available now, at license prices starting at \$12,500, with full source code and no run-time royalties. NetX Duo is available for \$15,500, also with full source code and no run-time royalties. For more information about Express Logic solutions, please visit the Web site at [www.expresslogic.com](http://www.expresslogic.com) [7], call 1-888-THREADX, or e-mail inquires to [info@expresslogic.com](mailto:info@expresslogic.com) [8].

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## Links:

[1] <http://www.swiftpage5.com/SpeClicks.aspx?X=2X0WPI8II4FJ1QY804YUWX>

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[8] <mailto:info@expresslogic.com>