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μC/OS-III™ REAL-TIME KERNEL FOR CROSSCORE® EMBEDDED STUDIO

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μC/OS-III™ Real-Time Kernel for CrossCore Embedded Studio (CCES) is the result of a collaboration between Analog Devices and Micrium to provide a user-friendly programming environment for μC/OS-III applications running on Analog Devices Blackfin® and SHARC® processor family. μC/OS-III™ Real-Time Kernel seamlessly integrates with CrossCore Embedded Studio and provides a user interface for

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FEATURES

- Integrates seamlessly with CrossCore Embedded Studio.
- Supports CrossCore Embedded Studio configuration user interface windows.
- Debugging status window.
- Scalable to contain only required features.
- ROMable.
- Supports pre-emptive and co-operative scheduling, including round-robin scheduling.
- Tasks and kernel object management are limited by processor memory only.
- Supports inter-task messaging.
- Supports pending on multiple kernel objects.
- Configurable error checking to reduce footprint and MIPS when required.
- Delivered with complete 100% ANSI C source code and in-depth documentation.

PRODUCT DOWNLOADS

- [Download the free, full functional evaluation¹ software of μC/OS-III Real-Time Kernel for CrossCore Embedded Studio. \(Release 1.0.1 - ~14 MB\)](#)
- [Download μC/OS-III Real-Time Kernel for CrossCore Embedded Studio Software. \(Release 1.0.1 - ~14 MB\)](#)
- [μC/OS-III Real-Time Kernel for CrossCore Embedded Studio Release Note](#)
- [CrossCore Software Licensing Guide^{2&3}](#)

Notes:

¹ For more info on the evaluation version reminder [refer to the](#)

² For a summary of the Micrium CrossCore Software Licensing Options [refer to the section below](#).

³ Licensing to Colleges and Universities Policy [refer to the section below](#).

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System Requirements

- Windows XP Professional SP3 (32-bit only).
- Windows Vista Business/Enterprise/Ultimate SP2 (32-bit only). It is
- Minimum of 2 GHz single core processor, 3.3 GHz dual core is recommended.
- Minimum of 1 GB memory (RAM), 4 GB is recommended.

recommended to install the software in a non-UAC-protected location.

- Windows 7 Professional/Enterprise/Ultimate (32 and 64-bit). It is recommended to install the software in a non-UAC-protected location.

- Minimum of 2 GB hard disk (HDD) space is required.
- CrossCore Embedded Studio for Analog Devices Processors.

Documentation

- [Micrium µC/OS-III Real-Time Kernel User's Manual](#) (pdf, 7082 kB)

Software and Tools

- [lwIP Lightweight TCP/IP Stack for CrossCore Embedded Studio](#)
- [µC/FS™ File System for CrossCore Embedded Studio](#)
- [µC/USB Device™ Stack for CrossCore Embedded Studio](#)
- [CrossCore Embedded Studio](#)

ENGINEERZONE SUPPORT COMMUNITY: LATEST CROSSCORE EMBEDDED STUDIO AND ADD-INS

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Micrium based CrossCore Software License Options

Single Product License

A Single Product License allows the licensee to embed the software into one specific customer identified end-product. Each end-product can be produced in an unlimited number of units, for the lifetime of that one specific end-product. An end-product refers to a product manufactured by the licensee using the software. Each end-product is assumed to contain a single microprocessor, microcontroller or DSP.

Product Line License (Product Family License)

A Product Line License (also known as a Product Family License) allows the licensee to embed the software into an unlimited number of different "Single Products" as long as each such product performs a similar function. For example, all commercial washing machines would be considered being part of a product family. Commercial "dryers" would be considered being part of a different family of products. Each end-product within the product family can be produced in an unlimited quantity, for the lifetime of the end-products belonging to the product family.

CPU-Type License (Platform License)

A CPU-Type License allows the licensee to embed the software into any number of different end-products using a single and specific processor type. The license holder may manufacture an unlimited

number of units of each of these different end-products for the life of the end-product that uses the specific licensed processor type from ADI (or its affiliates). The processor type is defined as being part of the same family. For example; Blackfin® (for example, Blackfin® ADSP-BFxxx).

Site License

A Site License allows the licensee to embed the software into any end-product that uses any CPU as long as the products are designed at a single physical site. A site is defined as licensee facilities where a product is being developed and may consist of multiple buildings located within a two (2) mile radius building one or more end-products.

Common to all Micrium based CrossCore Embedded Studio Add-in licenses:

- Licenses are royalty free.
- Licenses are perpetual for the life of the customer end-product.
- One year of maintenance is included with each license. The maintenance period begins when the product is first licensed.
- Subsequent years of maintenance are optional but highly recommended so that upgrades, improvements, bug fixes etc. are continually provided.
- For pricing on additional Micrium based CrossCore Software license options, please [Contact ADI](#)
- For a more complete list of µC/USB Device Stack parts refer to [this document](#)

Maintenance Policy: A CrossCore Embedded Studio license includes one year of updates, upgrades and lifetime support. The optional annual maintenance provides access to updates and upgrades released during the maintenance period. Updates released after the maintenance period will not run until maintenance is renewed. Renewing maintenance provides instant access to all previous updates. Annual maintenance is 20% of book price for each license option, for additional information please [Contact ADI](#)

Evaluation Version Reminder: A reminder that once your evaluation of uCOS-III Real-Time Kernel for CrossCore Embedded Studio is complete, and you decide to use it in a commercial product,you must purchase a full license from Analog Devices to comply with our license terms and agreements.

Licensing to Colleges and Universities Policy: Developers from accredited colleges and universities can use µC/OS-III Real-Time Kernel for CCES without a license, as long as the software is used only for educational purposes or peaceful research.



PRICE, PACKAGING, AVAILABILITY

µC/OS-III™ Real-Time Kernel for CrossCore® Embedded Studio

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AD-UCOS3-CPU Status: Production	µC/OS-III RTOS for CCES CPU-Type Lic	-	Yes	-	Contact ADI
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AD-UCOS3-MNT-CPU Status: Production	Maintenance µC/OS-III CPU-Type Lic	-	Yes	-	Contact ADI
AD-UCOS3-MNT-ST Status: Production	Maintenance µC/OS-III Site License	-	Yes	-	Contact ADI

Pricing displayed is based on 1-piece. The USA list pricing shown is for budgetary use only, shown in United States dollars (FOB USA per unit), and is subject to change. International prices may vary due to local duties, taxes, fees and exchange rates.

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