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Micrium μC/USB Device

μC/USB
Device™
Stack for
CrossCore®
Embedded
Studio

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Overview

Features and Benefits | Product Details

- Supports Audio, CDC/ACM, HID, MSC, PHDC and Vendor device classes
- uC/USB Device stack for CrossCore Embedded Studio requires a real-time operating system (RTOS).
- Integrates seamlessly with CrossCore Embedded Studio.

Compatible Parts

- [ADSP-SC589](#)
- [ADSP-SC584](#)
- [ADSP-SC587](#)
- [ADSP-SC583](#)
- [ADSP-SC582](#)

- Supports CrossCore Embedded Studio user interface windows for configuring the USB stack and device classes.
- Supports Full and High Speed USB Connections.
- Supports bulk, control and interrupt transfer types.
- Supports responses to USB standard requests.
- Scalable to contain only required features.
- Complies with USB 1.1 and USB 2.0.
- Provides examples (one for each class) for a smooth out-of-the-box experience.
- Well integrated with μ C/OS-III™ for CrossCore Embedded Studio to provide a threaded solution for USB.

- [ADSP-SC573](#)
- [ADSP-SC572](#)
- [ADSP-SC571](#)
- [ADSP-SC570](#)
- [ADSP-21587](#)

[View All](#)

Downloads And Related Software

[View All \(12\)](#)

[Product Downloads \(5\)](#) [Design Tools \(2\)](#) [Middleware \(5\)](#)

Licensing

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 μ C/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 or uCOS-II 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 μ C/OS-III Real-Time Kernel

Systems Requirements

- Windows 7 Professional, Enterprise, or Ultimate (32 and 64-bit)
- Windows 8.1 Pro or Enterprise (32 and 64-bit)
- Windows 10 Pro or Enterprise (32 and 64-bit)
- 2 GHz single core processor; 3.3GHz dual core or better recommended
- 1 GB RAM; 4GB or more recommended
- 2 GB available disk space
- One open USB port

Documentation

View All (2)

Software Manuals
(2)

Related Hardware (3)

EZ-Kits

ADZS-SC573-EZLITE

ADSP-SC573 Evaluation
Hardware for the ADSP-
SC57x/ADSP-2157x SHARC
Family (400-ball, 17x17mm BGA)

ADZS-SC589-EZLITE

ADSP-SC589 Evaluation
Hardware for the ADSP-
SC58x/ADSP-2158x SHARC
Family (529-ball CSPBGA)

ADZS-SC584-EZLITE

ADSP-SC584 Evaluation
Hardware for the ADSP-
SC58x/ADSP-2158x SHARC
Family (349-ball CSPBGA)

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Model	Description	Price	RoHS
AD-UCUSB-DCAUD-CL Contact ADI	µC/USB DC Audio for CCES CPU-Type License		Yes

AD-UCUSB-DCAUD-PLL Contact ADI Model	µC/USB DC Audio for CCES Prod Line License	-	Yes
AD-UCUSB-DCAUD-SL	µC/USB DC Audio for CCES Site License	-	Yes
Contact ADI			
AD-UCUSB-DCAUD-SPL Contact ADI	Single Product License of µC/USB Device Class Audio for CrossCore Embedded Studio		Yes
AD-UCUSB-DCCDC-CL Contact ADI	µC/USB DC CDC for CCES CPU-Type License		Yes
AD-UCUSB-DCCDC-PLL Contact ADI	µC/USB DC CDC for CCES Prod Line License		Yes
AD-UCUSB-DCCDC-SL Contact ADI	µC/USB DC CDC for CCES Site License	-	Yes
AD-UCUSB-DCCDC-SPL Contact ADI	Single Product License of µC/USB Device Class CDC-ACM for CrossCore Embedded Studio		Yes
AD-UCUSB-DCHID-CL Contact ADI	µC/USB DC HID for CCES CPU-Type License		Yes
AD-UCUSB-DCHID-PLL Contact ADI	µC/USB DC HID for CCES Prod Line License		Yes
AD-UCUSB-DCHID-SL Contact ADI	µC/USB DC HID for CCES Site License	-	Yes
AD-UCUSB-DCHID-SPL Contact ADI	Single Product License of µC/USB Device Class HID for CrossCore Embedded Studio		Yes
AD-UCUSB-DCMSC-CL Contact ADI	µC/USB DC MSC for CCES CPU-Type License		Yes
AD-UCUSB-DCMSC-PLL Contact ADI	µC/USB DC MSC for CCES Prod Line License		Yes
AD-UCUSB-DCMSC-SL Contact ADI	µC/USB DC MSC for CCES Site License	-	Yes
AD-UCUSB-DCMSC-SPL Contact ADI	Single Product License of µC/USB Device Class MSC for CrossCore Embedded Studio		Yes
AD-UCUSB-DCPHD-CL Contact ADI	µC/USB DC PHDC for CCES CPU-Type License		Yes

AD-UCUSB-DCPHD-PLL Contact ADI Model	µC/USB DC PHDC for CCES Prod Line License Description		Yes RoHS
AD-UCUSB-DCPHD-SL Contact ADI	µC/USB DC PHDC for CCES Site License	-	Yes
AD-UCUSB-DCPHD-SPL Contact ADI	Single Product License of µC/USB Device Class PHDC for CrossCore Embedded Studio		Yes
AD-UCUSBD-CPU Contact ADI	µC/USB Dev Core for CCES CPU-Type License		Yes
AD-UCUSB-DCVNDRCL Contact ADI	µC/USB DC Vndor for CCES CPU-Type License		Yes
AD-UCUSB-DCVNDRPLL Contact ADI	µC/USB DC Vndor for CCES Prod Line License		Yes
AD-UCUSB-DCVNDRSL Contact ADI	µC/USB DC Vndor for CCES Site License	-	Yes
AD-UCUSB-DCVNDRSPL Contact ADI	Single Product License of µC/USB Device Class Vendor for CrossCore Embedded Studio		Yes
AD-UCUSBD-MAUD-CL Contact ADI	Maintenance µC/USBD Aud CPU-Type License		Yes
AD-UCUSBD-MAUD-PLL Contact ADI	Maintenance µC/USBD Aud Prod Line License		Yes
AD-UCUSBD-MAUD-SL Contact ADI	Maintenance µC/USBD Aud Site License	-	Yes
AD-UCUSBD-MAUD-SPL Contact ADI	Single Product Maintenance License of µC/USB Device Class Audio for CrossCore Embedded Studio		Yes
AD-UCUSBD-MCDC-CL Contact ADI	Maintenance µC/USBD CDC CPU-Type License		Yes
AD-UCUSBD-MCDC-PLL Contact ADI	Maintenance µC/USBD CDC Prod Line License		Yes
AD-UCUSBD-MCDC-SL Contact ADI	Maintenance µC/USBD CDC Site License	-	Yes
AD-UCUSBD-MCDC-SPL Contact ADI	Single Product Maintenance License of µC/USB Device Class CDC-ACM for CrossCore Embedded Studio		Yes

AD-UCUSBD-MHID-CL Model ADI	Maintenance µC/USB HID CPU-Type License Description	Price	Yes RoHS
AD-UCUSBD-MHID-PLL Contact ADI	Maintenance µC/USB HID Prod Line License		Yes
AD-UCUSBD-MHID-SL Contact ADI	Maintenance µC/USB HID Site License	-	Yes
AD-UCUSBD-MHID-SPL Contact ADI	Single Product Maintenance License of µC/USB Device Class HID for CrossCore Embedded Studio		Yes
AD-UCUSBD-MMSC-CL Contact ADI	Maintenance µC/USB MSC CPU-Type License		Yes
AD-UCUSBD-MMSC-PLL Contact ADI	Maintenance µC/USB MSC Prod Line License		Yes
AD-UCUSBD-MMSC-SL Contact ADI	Maintenance µC/USB MSC Site License	-	Yes
AD-UCUSBD-MMSC-SPL Contact ADI	Single Product Maintenance License of µC/USB Device Class MSC for CrossCore Embedded Studio		Yes
AD-UCUSBD-MNT-CPU Contact ADI	Maintenance µC/USB Core CPU-Type Lic		Yes
AD-UCUSBD-MNT-PL Contact ADI	Maintenance µC/USB Core Prod Line Lic		Yes
AD-UCUSBD-MNT-SP Contact ADI	Single Product Maintenance License of µC/USB Device Stack core software for CrossCore Embedded Studio		Yes
AD-UCUSBD-MNT-ST Contact ADI	Maintenance µC/USB Core Site License	-	Yes
AD-UCUSBD-MPHD-CL Contact ADI	Maintenance µC/USB PHD CPU-Type License		Yes
AD-UCUSBD-MPHD-PLL Contact ADI	Maintenance µC/USB PHD Prod Line License		Yes
AD-UCUSBD-MPHD-SL Contact ADI	Maintenance µC/USB PHD Site License	-	Yes
AD-UCUSBD-MPHD-SPL Contact ADI	Single Product Maintenance License of µC/USB Device Class PHDC for CrossCore Embedded Studio		Yes

AD-UCUSBD-MVNRCL Model Contact ADI	MaintenanceμC/USBD Vndor CPU-Type License Description	Price	Yes RoHS
AD-UCUSBD-MVNRPLL Contact ADI	MaintenanceμC/USBD Vndor Prod Line License		Yes
AD-UCUSBD-MVNRSL Contact ADI	MaintenanceμC/USBD Vndor Site License	-	Yes
AD-UCUSBD-MVNRSPL Contact ADI	Single Product Maintenance License of μC/USB Device Class Vendor for CrossCore Embedded Studio		Yes
AD-UCUSBD-PL Contact ADI	μC/USB Dev Core for CCES Prod Line License		Yes
AD-UCUSBD-SITE Contact ADI	μC/USB Dev Core for CCES Site License	-	Yes
AD-UCUSBD-SPRD Contact ADI	Single Product License of μC/USB Device Stack core software for CrossCore Embedded Studio		Yes

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Analog Devices is a global leader in the design and manufacturing of analog, mixed signal, and DSP integrated circuits to help solve the toughest engineering challenges.

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