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## ADSP-CM40x MIXED-SIGNAL CONTROL PROCESSOR DEVELOPMENT PRODUCTS

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## Product Details

The **ADSP-CM40x mixed-signal control processor family** is based on the **ARM®Cortex®-M4** core and is designed for motor control and industrial applications. The **ADSP-CM40x Evaluation Hardware** provides a low cost hardware solution for evaluating the Analog Devices **ADSP-CM40x** mixed-signal control processor family, and consists of the **ADSP-CM403F** and **ADSP-CM408F EZ-Boards™**, **J-LINK LITE ARM** debug probe [More](#) ▾

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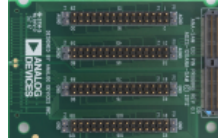
ADZS-CM403F EZ-Board



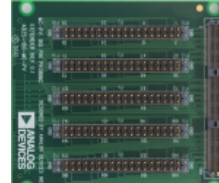
ADZS-CM408F EZ-Board



Analog 120-Pin Probing Board



PWM 180-Pin Probing Board



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## FEATURES

**ADSP-CM408F EZ-Board**

- ADSP-CM408F mixed-signal control processor
- 2 – 16-bit ADCs with 8 inputs each
- 10/100 Ethernet PHY
- USB
- 2 – CAN interfaces ADI ADM8053
- RS-485 transceiver ADI ADM2682E
- RS-232 transceiver ADI ADM3252E
- 256K x 16-bit (4 Mb) SRAM
- 2 Mb internal quad SPI flash
- 40 character TMI display
- Expansion Interface

**ADSP-CM403F EZ-Board**

- ADSP-CM403F mixed-signal control processors
- 2 – 16-bit ADCs with 12 inputs each
- 2 – 12-bit DACs
- CAN interface ADI ADM3053
- RS-232 transceiver ADI ADM3252E
- 256K x 16-bit (4 Mb) SRAM
- 2 Mb internal quad SPI flash
- 40 character TMI display
- Expansion Interface

## PRODUCTS DOWNLOAD

- Download the **ADSP-CM40x Enablement Software package**. (Rel 1.1.0 - ~36.5 MB)
- Download the **ADSP-CM40x Enablement Software release note**.
- Download the **"Board Design Database" for ADSP-CM403F**. (Revision 1.0) (zip, 8 MB)
- Download the **"Board Design Database" for ADSP-CM408F**. (Revision 0.2) (zip, ~8.8 MB)

## System Requirements

- Windows XP Professional SP3 (32-bit only).
- Windows Vista Business/Enterprise/Ultimate SP2 (32-bit only). It is 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.
- Windows 8 Professional/Enterprise (32 and 64-bit). It is recommended to install the software in a non-UAC-protected location.
- Adobe Acrobat Reader to access the product documentation.
- IAR Embedded Workbench for ARM

## Documentation

- ADSP-CM402F/CM403F/CM407F/CM408F Mixed-Signal Control Processor with ARM Cortex-M4 (Rev PrE, 09/2013)** (pdf, 2743 kB)
- ADSP-CM40x Mixed-Signal Control Processor with ARM Cortex-M4 Hardware Reference, Revision 0.2, September 2013** (pdf, 11731 kB)

- [PWM 180-Pin Probing Board Manual, Revision 1.0, September 2013](#) (pdf, 523 kB)
- [Analog 120-Pin Probing Manual, Revision 1.0, September 2013](#) (pdf, 510 kB)
- [ADSP-CM403F EZ-KIT Lite Evaluation System Manual, Revision 1.0, September 2013](#) (pdf, 476 kB)
- [ADSP-CM408F EZ-KIT Lite Evaluation System Manual, Revision 1.1, September 2013](#) (pdf, 584 kB)

## Related Software

- [IAR Embedded Workbench® for ARM version v6.60.](#)
- [Mcrim uC/TCP-IP™ The Embedded Protocol Stack.](#) TCP/IP stack with core version 2.13 and requires Mcrium's uC/OS-III RTOS. Click on "How to Buy" link at the top of the page.
- [Mcrim uC/USB Device™ Universal Serial Bus Device Stack.](#) Core and Vendor class version 4.01 and requires Mcrium's uC/OS-III RTOS. Click on "How to Buy" link at the top of the page.
- [Mcrim uC/OS-III™ Real-Time Kernel.](#) Click on "How to Buy" link at the top of the page.
- [Segger J-Link Software and Documentation version 4.76a or later.](#)

## Related Hardware

- **PWM 180-Pin Probing Board** - Allows signal probing when connected to the analog connector on the EZ-Board.
- **Analog 120-Pin Probing Board** - Allows signal probing when connected to the PWM or memory connector on the EZ-Board.

## Buy

### PRICE, PACKAGING, AVAILABILITY

#### ADSP-CM40x Mixed-Signal Control Processor Development Products

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Model	Description	Price	RoHS	View PCN/PDN	Check Inventory/Purchase/Sample
ADZS-120ANA-SAM Status: Production	Allows signal probing when connected to the analog connector on the EZ-Board.				<input type="checkbox"/>
ADZS-180PWM-SAM Status: Production	Allows signal probing when connected to the PWM or memory connector on the EZ-Board.				<input type="checkbox"/>
ADZS-CM403F-EZBRD Status: Production	Hardware evaluation board for the ADSP-CM40x mixed-signal control processor family. This board uses the ADSP-CM403F mixed-signal control processor. Allows user to develop software for running on the ADSP-CM40x family using their existing debugger.				<input type="checkbox"/>
ADZS-CM403F-EZLITE Status: Production	Hardware evaluation board for the ADSP-CM40x signal control processor family. This board uses the ADSP-CM403F mixed-signal control processor and comes with a Segger J-LINK Lite ARM emulator. Allows user to develop software for running on the ADSP-CM40x family.				<input type="checkbox"/>
ADZS-CM408F-EZLITE Status: Production	Hardware evaluation board for the ADSP-CM40x mixed-signal control processor family. This board uses the ADSP-CM408F mixed-signal control processor and comes with a Segger J-LINK Lite ARM emulator. Allows user to develop software for running on the ADSP-CM40x family.				<input type="checkbox"/>
ADZS-CM408F-EZBRD Status: Production	Hardware evaluation board for the ADSP-CM40x mixed-signal control processor family. This board uses the ADSP-CM408F mixed-signal control processor. Allows user to develop software for running on the ADSP-CM40x family using their existing debugger.				<input type="checkbox"/>

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