



**Release Notes for EV-SC59x EZ-KIT[®] Rel.
1.0.0**

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1 Release Notes

Thank you for installing the EV-SC59x EZ-KIT® Board Support Package (BSP). The BSP provides software and documentation in support of the EV-SC59x EZ-KIT®. The EV-SC59x EZ-KIT is designed for use with CrossCore® Embedded Studio (CCES) for Analog Devices Processors software development tools. The CCES development environment aids advanced application code development and debug, such as:

- Create, compile, assemble, and link application programs written in C++, C, and assembly.
- Load, run, step, halt, and set breakpoints in application programs
- Read and write data and program memory
- Read and write core and peripheral registers
- Plot memory.

For more details on CCES, please visit www.analog.com/cces .

The EV-SC59x EZ-KIT® BSP provides comprehensive software support for the EV-SC59x EZ-KIT®. In this release, various examples are provided to demonstrate the on-chip drivers and services.

2 Release Dependencies:

- Requires CrossCore® Embedded Studio version 2.10.0
- EV-21593-SOM EZ-KIT® Rev A
- EV-SC594-SOM EZ-KIT® Rev B
- EV-SOMCRR-EZ-KIT® Rev A

3 Examples:

3.1 Power_On_Self_Test:

This example allows the user to test many peripherals of the EV-SC59x EZ-KIT®. `Readme_Power_On_Self_Test_21593.html` and `Readme_Power_On_Self_Test_SC594.html` is provided in the POST example to understand how these tests are run. EMAC and CAN-FD example have been integrated in the `Power_On_Self_Test` and only work with ADSP-SC594W (automotive) variant.

3.2 Device_Programmer:

This example allows the user to program the flash device on the EV-SC59x EZ-KIT® in conjunction with the "Command-Line Device Programmer (cldp)".

Support is now available for ADSP-21593 and ADSP-SC594 right now. A pre-built binary exists so that users can just program the flash device without having to build the example.

- ISSI Device programmer for ADSP-SC594 will only work with EV-SC594-SOM EZ-KIT® Rev B.
- Device Programmer for Macronix flash have been added for ADSP-21593 & ADSP-SC594.

3.3 Drivers/Services:

The following Device Driver and System Service examples are provided for EV-SC59x EZ-KIT® Board Support Package (BSP):

Device Drivers

- ASRC
- ADC-DAC
- CAN-FD
- CRC
- Crypto (PKTE)
- FIR
- HADC
- IIR

- OSPI
- SPDIF
- SPI
- SPORT
- TMU
- TWI
- UART

System Services

- DAI/DRU
- DMA (MDMA, EMDMA)
- FMU
- GPIO
- PWR
- RCU
- SMPU
- STDIO
- SWU
- TMR
- TRU
- WD

Known Issues:

- Rebuilding the BSP examples without clean build fails for some workspaces with deep paths.
- Device Programmer example does not work in release mode.
- SPI Fast Mode is required to be enabled if SPI clock is configured to run at more than 45.875 MHz.
- CGUPowerModes example fails on SHARC core in release mode.
- OSPI XIP mode code execution example fails in release mode for ARM core and the same example for SHARC core works for alternative loads meaning fails for every alternative load.