E18 series ZigBee wireless module

Firmware Update Operation Instructions



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Step 1 Hardware preparation

Prepare the following items：

- Debugger/Programmer CC Debugger https://www.ebyte.com/en/product-view-news.html?id=947
- Ebyte E18 seires module or E18 series test kits https://www.cdebyte.com/product_serch/E18-/1/





Step 2 Install tools and drivers

To obtain the USB drivers required by the tools, it is recommended to download and install the tools listed below:

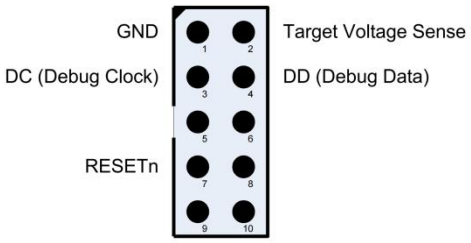
- SmartRF™ Flash Programmer https://www.ti.com/tool/FLASH-PROGRAMMER

After the tool is installed, the driver will be stored in the following default path:

C:\Program Files\Texas Instruments\SmartRF Tools\Drivers\cebal

Step 3 Connect debugger/programmer to target module/test kit

Connect debugger/programmer to target module/test kit， The minimum connections required for SOC debugging and programming are shown in the below:



CC Debugger	connecting	E18 modules/test kit
GND	-	GND
Target Voltage Sense	-	VCC
DC(Debug Clock)	-	P2.2
DD(Debug Data)	-	P2.1
RESETn	-	RESET

For the pin definitions of E18 series modules/test kits, please refer to the relevant product manuals.

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Step 4 Connect USB cable

Connect the USB cable to the debugger and then to the PC.



Step 5 Associate a USB device with a USB driver

When the debugger/programmer is connected to the PC, the PC will detect the new USB device. Windows will automatically handle the installation and association of the relevant drivers.

If Windows does not automatically recognize the device driver, please disconnect the target module/test kit and reconnect the USB cable to try. Or install the driver manually, the driver path：

C:\Program Files\Texas Instruments\SmartRF Tools\Drivers\cebal



Step 6 Check LED status

The debugger/programmer is respectively connected to the target module/test kit and PC, and it supplies power to the target module/test kit. Then check the status of the LEDs on the Debugger/programmer.



If the light is Green, the debugger/programmer has successfully detected the chip on the target.



If the light is Red, the debugger/programmer failed to detect the chip on the target.

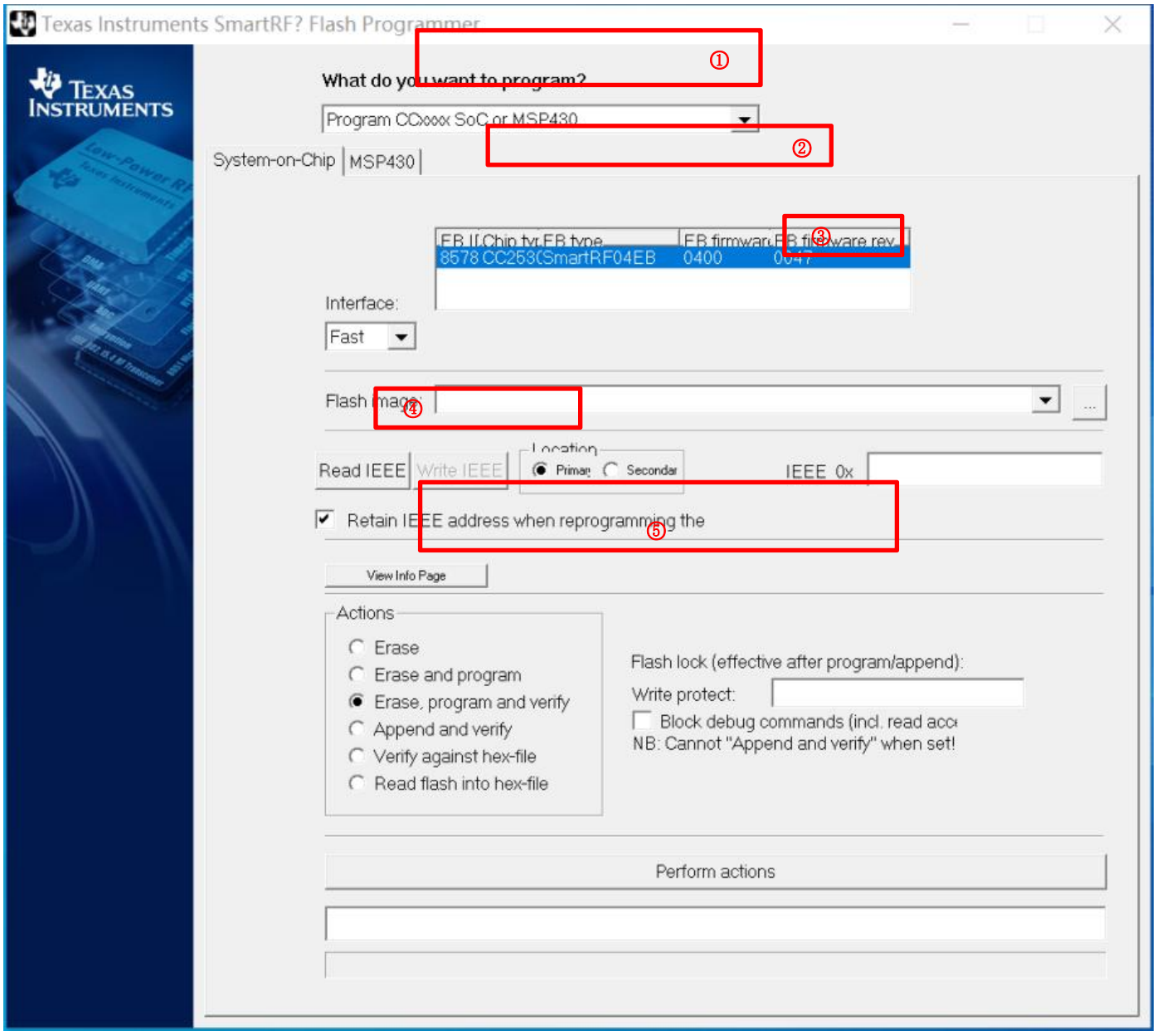
Please ensure that all required wires are properly connected and the target board is powered. Or please press the reset button of the debugger/programmer to retry the chip detection.

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Step 7 Flash firmware

Opent SmartRF™ Flash Programmer：



①Select “Program CCxxxx SoC or MSP430”；

②Displays the successfully recognized SoC chip, it can be considered that the connection is successful;

③Select the firmware file "*.Hex" file;

④It is recommended to select “Erase,program and verify”；

⑤Click“Perform action”, start to flash the firmware and waiting for the progress bar is to complete.

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Revision history

Version	Date	Description	Issued by
1.0	2022-9-1	Initial version	Ning

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