Quick Start.

Connect a USB/UART adapter to PMOD1. Baud= 115200,8,n,1 This is the Debug terminal.

Import the projects

Build the **x1RA6\_boot** project (Debug configuration)

Build the **RA6\_primary\_L** project (Debug configuration) then debug. You should see 3 LEDs blinking and the debug terminal displays:

A screenshot of a computer

AI-generated content may be incorrect.

Build the RA6\_update\_L project (Debug configuration) and debug it. You should see 2 LEDs blinking and the terminal will display

A screenshot of a computer

AI-generated content may be incorrect.

Right-click on the RA6\_primary\_L project and change the Build Configuration to Bootable.

A screenshot of a computer

AI-generated content may be incorrect.

Build the Bootable configuration. Repeat this for the RA6\_update\_L project.

Note the Console output. srec\_cat issues a warning, but everything works. The python scripts should run without error.

A screenshot of a computer

AI-generated content may be incorrect.

Build both RA6\_primary\_L and RA6\_update\_L projects.

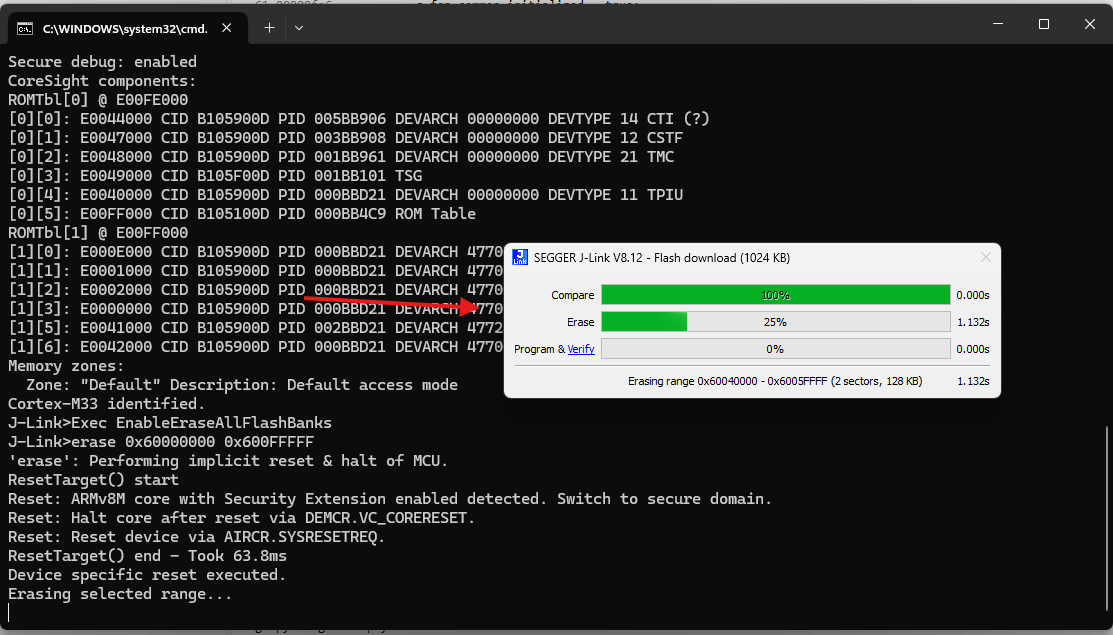
Open the tools folder in Explorer (not in e2studio). These 2 batch files are used.

A screenshot of a computer

AI-generated content may be incorrect.

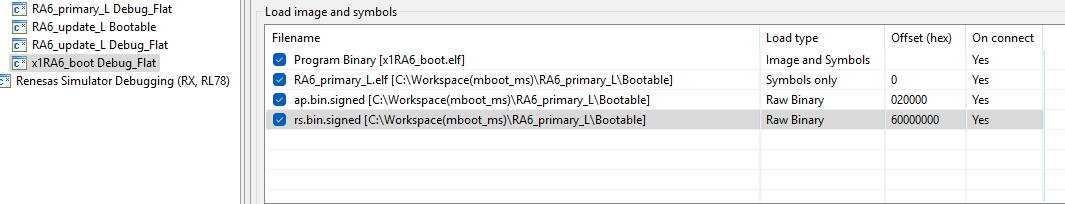
erase\_qspi\_quick erases just the used sections of QSPI. The erase\_qspi\_all erases the entire chip, but takes a while to do so. The upload\_update loads the update into QSPI.

Erase the QSPI by double-clicking the erase\_qspi\_quick.bat. You should see this:



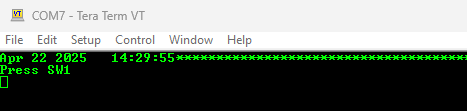
Once it’s done, press any key

Open the Debug configuration for the x1RA6\_boot bootloader project.



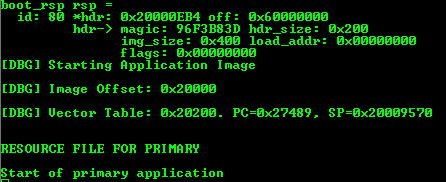
Note in the startup tab that we load the signed application and the signed resources to their appropriate places in memory: ap to flash and rs to QSPI space. Since we erased the QSPI, there will be no update available.

Debug the x1RA6\_boot project. Resume and you’ll see this on the Debug terminal:



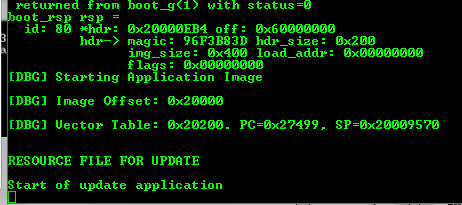
Press SW1 on the board.

There will be a flurry of activity… then this at the end:



Run the upload\_update.bat file:

This causes MCU to reset. Press SW1. Another flurry of activity and both the application and the resources are updated and booted.



Press reset. Then press SW1. It will revert.