i.MX RT1050 Evaluation Kit Flashing Instructions
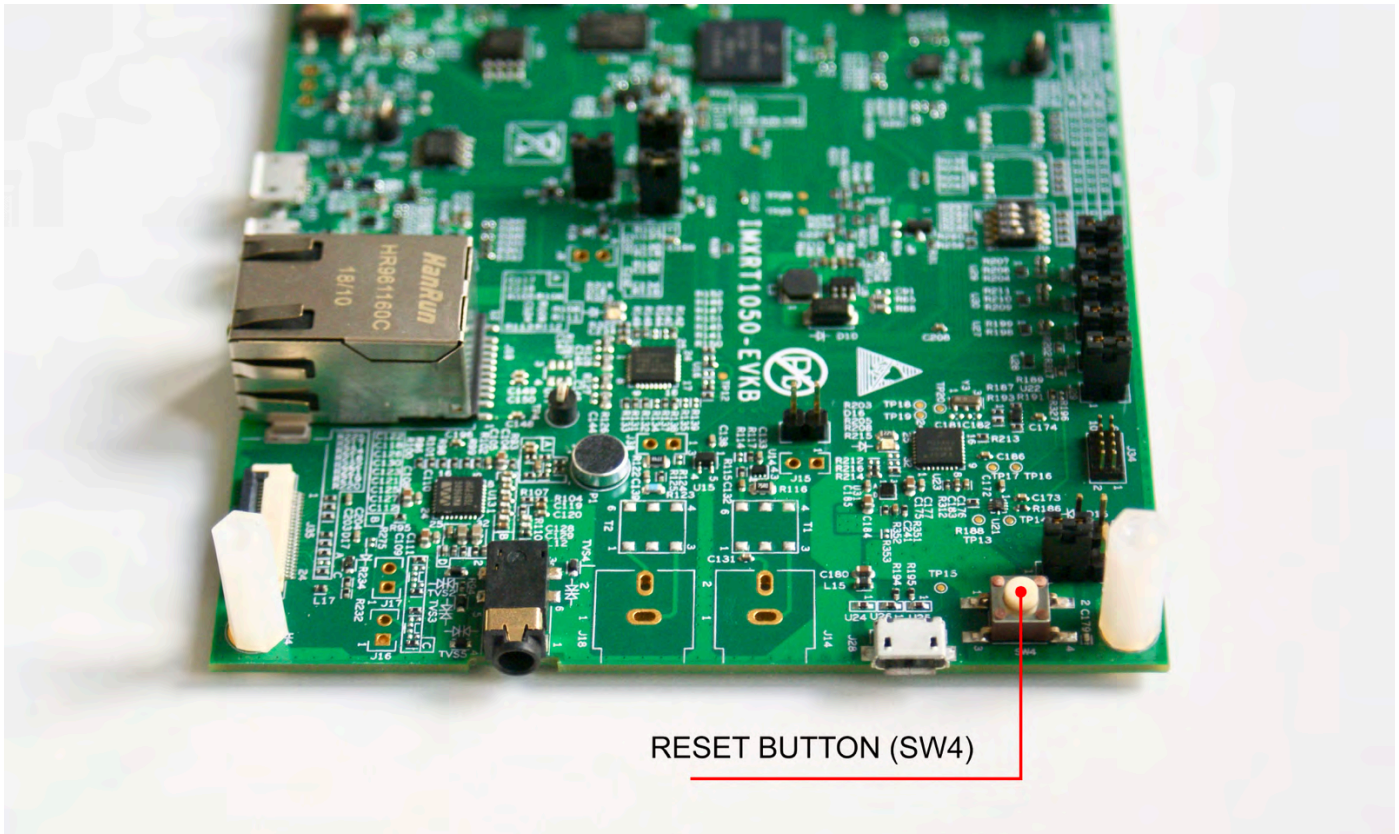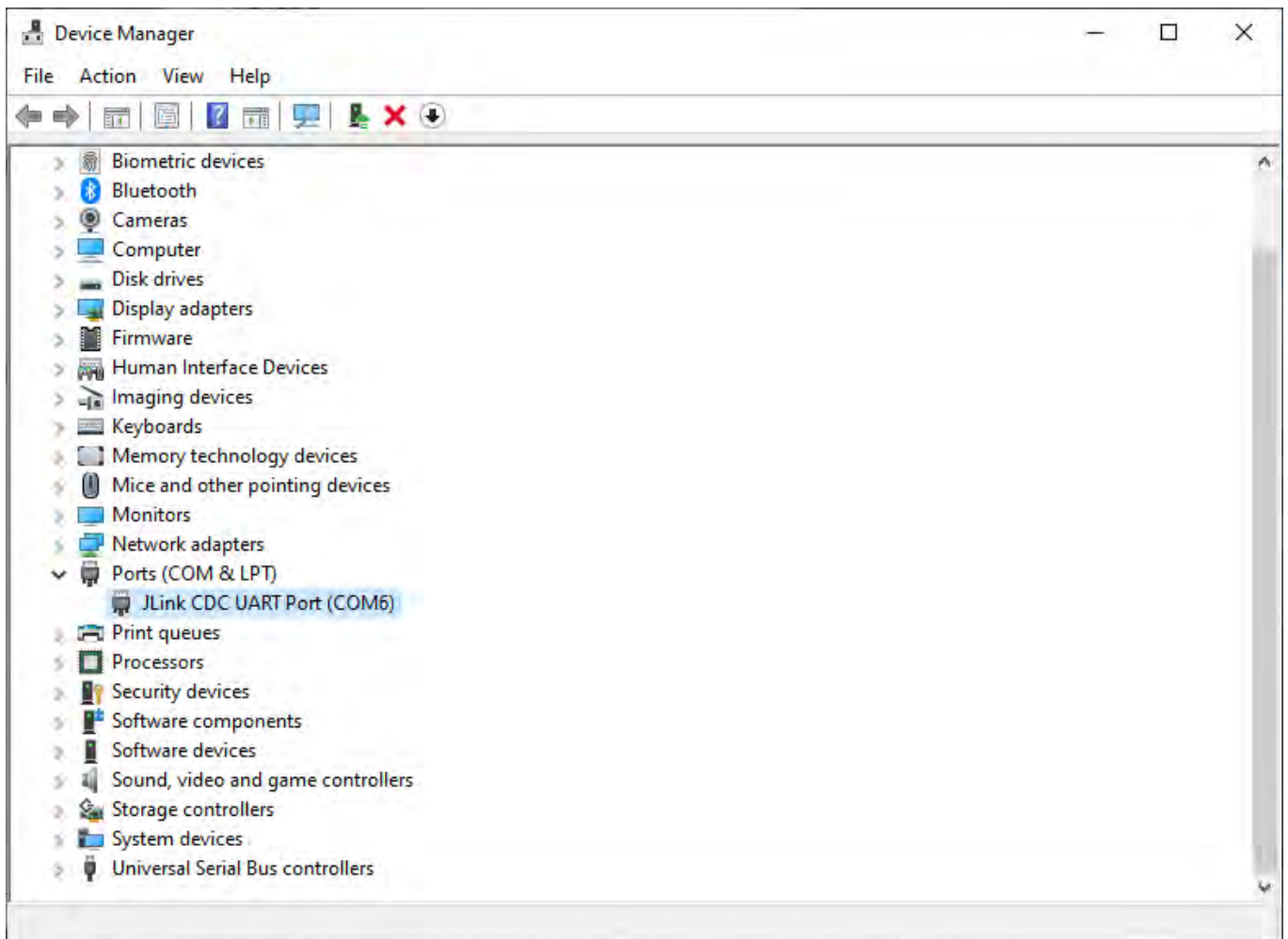
Before flashing the Thermostat Demo image
into i.MX RT1050 Evaluation Kit board the
firmware on the device needs to be updated(this is a one time action). Update the firmware as follows:

1. Download new firmware. See: ↪ **OpenSDA_MIMXRT1050-EVK-Hyperflash**

2. Hold the reset button (The button is next to the USB power connector).
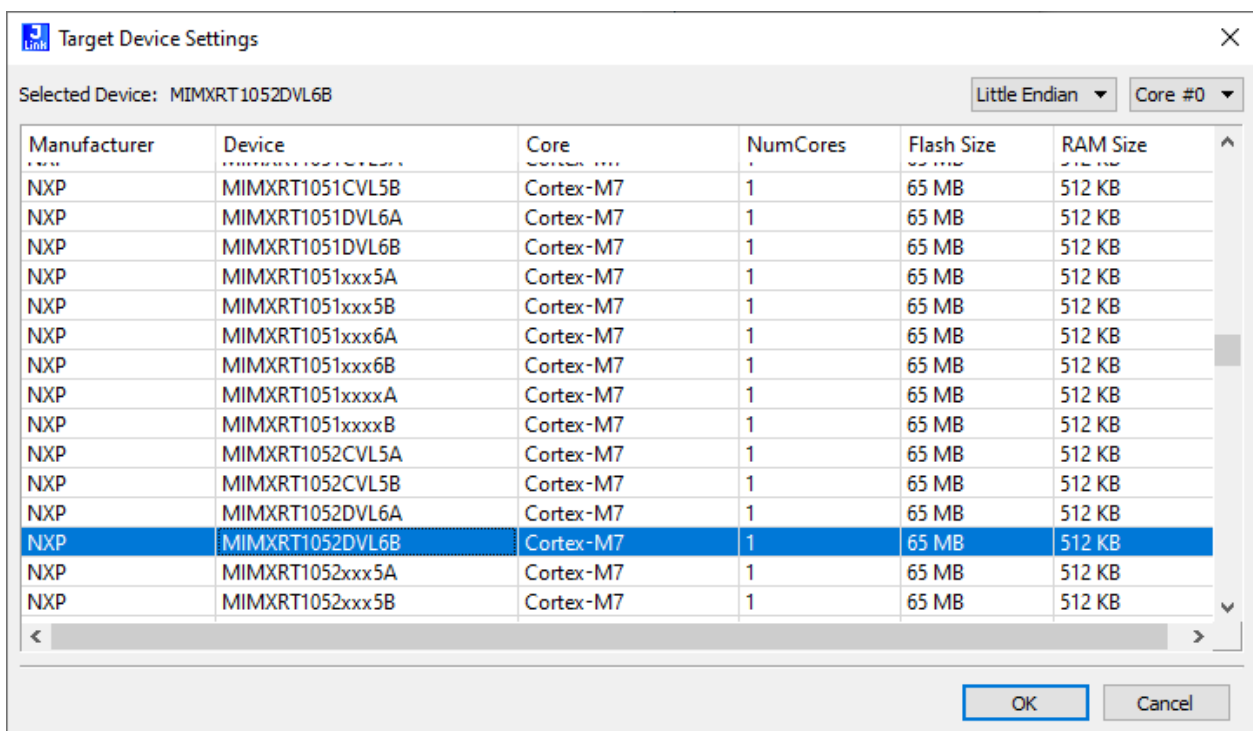

RESET BUTTON (SW4)

3. While still holding the reset button, connect the USB cable from your host machine to the device.

4. Release the reset button.

5. An additional drive appears in your host's file explorer. Drop the downloaded file (49_OpenSDA_MIMXRT1050-EVK-Hyperflash.bin) there.

6. Wait as long as the drive is disconnected from the system. In the file explorer, you see that the drive is disconnected.

7. Reboot the device.

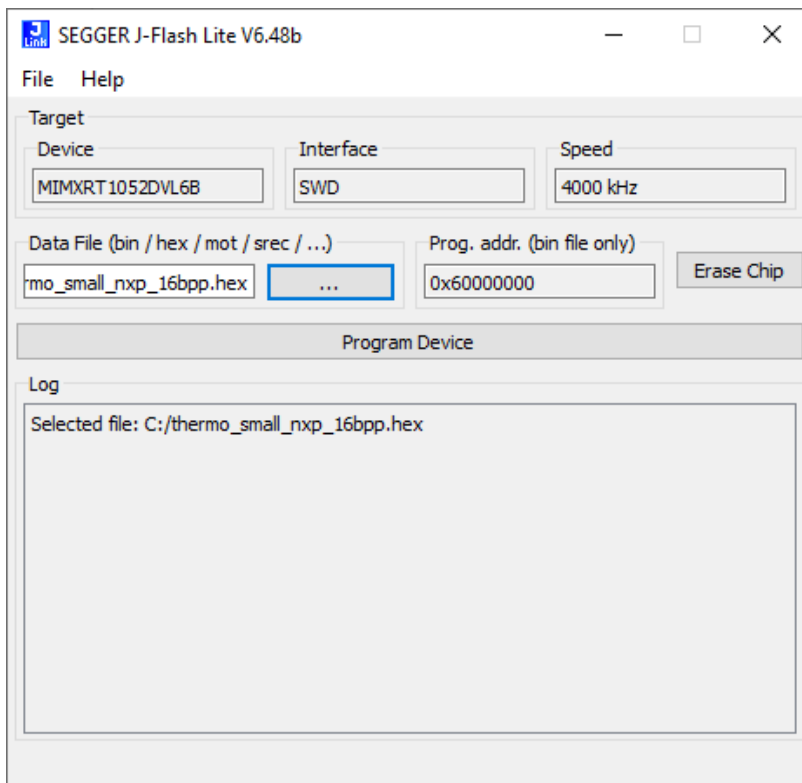8. You find the new device under **Ports (Com & LPT). For example, its name is _JLink CDC UART PORT(COM6)_**.

In order to flash the binary image, you need to install ➔ **J-Link Software and Documentation pack for Windows**. After you have installed the software, please run J-Flash Lite Application and perform the following steps:
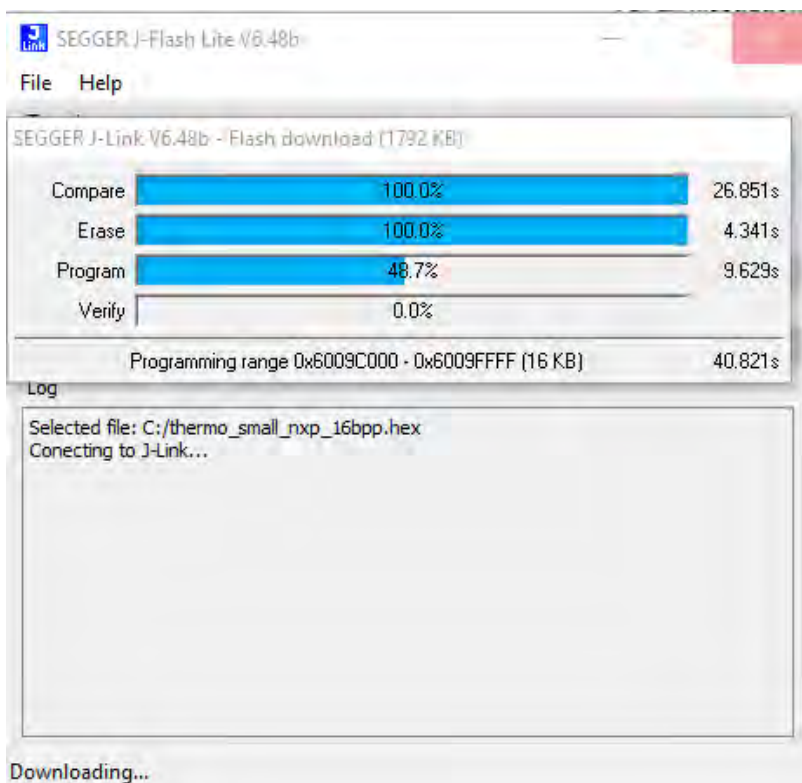
1. Select proper device from the **Device** list - *MIMXRT1052DVL6B*:
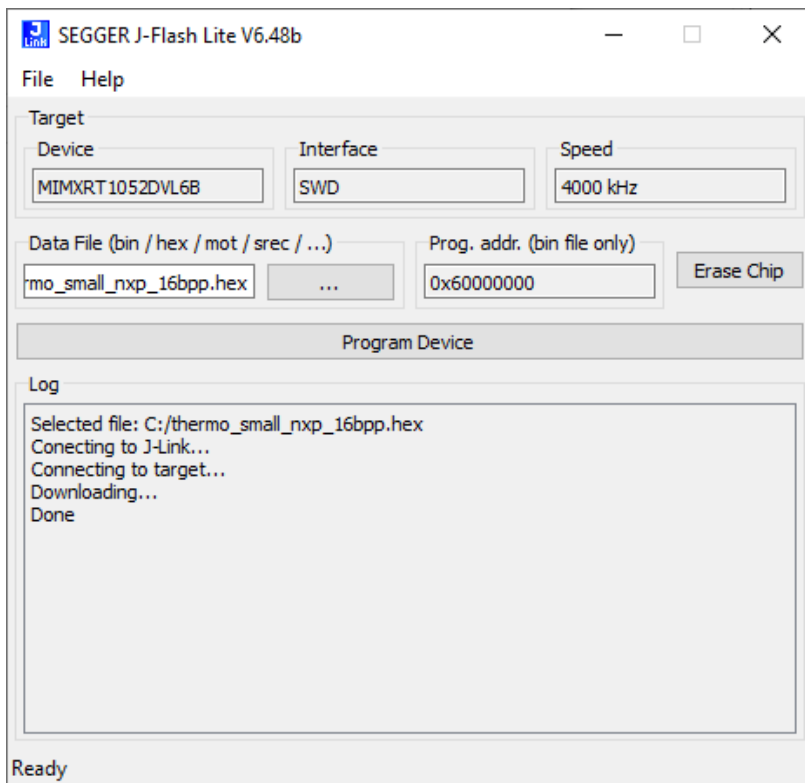

2. Select **OK**.

3. Select proper demo hex file (thermo_small_nxp_16bpp_96e3d91d_staging_0.1-alpha1.hex)

4. **Program Device** button - the upload process shall start

5. Once the process is finished, you see the running application on the device.

SEGGER J-Flash Lite V6.48b

File Help

Target

Device
MIMXRT1052DVL6B

Interface
SWD

Speed
4000 kHz

Data File (bin / hex / mot / srec / ...)
rmo_small_nxp_16bpp.hex   ...

Prog. addr. (bin file only)
0x60000000

Erase Chip

Program Device

Log

Selected file: C:/thermo_small_nxp_16bpp.hex
Conecting to J-Link...
Connecting to target...
Downloading...
Done

Ready