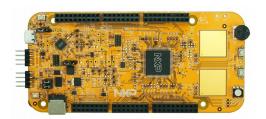
S32K144ZENKIT

How to test this kit?

If you want to test S32K144ZENKIT you need some things. It is:

1 S32K144 EVB



2 USB-UART TTL Converter

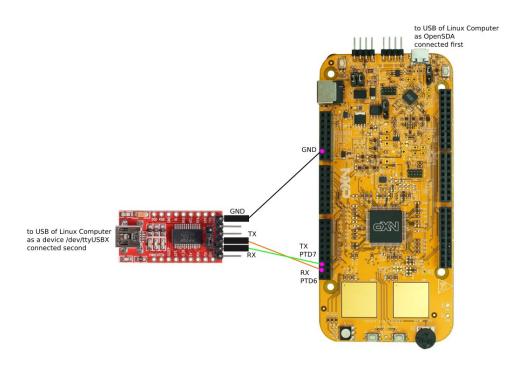
It may be device based FTDI, CH340G or PL2303 or something else. It must work with Linux via tty-driver.



3 Linux Computer and S32DS IDE. S32DS IDE may download from nxp.com



If you have all needed, connect those together.



```
When you install S32DS IDE you must set a directory as workspace, example ~/workspace/s32ds_arm_v2.2
        Create a project using S32DS IDE: File → New → S32DS Application Project
        Choose Family S32Kxxx/S32K144
        Enter "Project name": bootloader
        Next & Finish
        The result will be project in the directory: ~/workspace/s32ds_arm_v2.2/bootloader
        Next step need starting terminal and entry execute follow commands:
        > cd ~/workspace/s32ds_arm_v2.2
        > git clone <a href="https://github.com/somebyte/S32K144ZENKIT">https://github.com/somebyte/S32K144ZENKIT</a>
        > cd bootloader/src
        > ../../S32K144ZENKIT/s32ds_bootload.sh
        Add to main.c follow lines:
        #include "S32K144.h"
        #include "bootload/bootload.h"
        /* See ../tty/uart.h to choose needed uart & pins */
        #define UARTCFG UART IFC2|UART PIN RX1|UART PIN TX1|UART B921600 /* UART2, RX: PTD6, TX: PTD7 */
        // Other example: #define UARTCFG UART IFC0|UART PIN RX1|UART PIN TX1|UART B115200 /* UART0, RX:
PTBO, TX: PTB1 */
        int
        main (void)
          return bootloadmain(UARTCFG);
        You can run mcu application (bootloader) via S32DS IDE as Release_FLASH, now.
        Come back to the terminal and try work with mcu:
        > sudo dmesg # define what tty device is used by mcu, example it is /dev/ttyUSB1
        > cd ../../S32K144ZENKIT/linux
        > make
        > sudo ./uploader /dev/ttyUSB1 921600 ../evb/hello_clocks_blue__0x0000B000.srec
        > sudo ./uploader /dev/ttyUSB1 921600 ../evb/hello clocks red 0x0000F000.srec
        > sudo ./uploader /dev/ttyUSB1 921600 ../evb/hello_clocks_green_0x00013000.srec
        > sudo ./ttydebug /dev/ttyUSB1 921600
                jump 0x000B000 # blink blue
        # push reset button of mcu
                jump 0x000F000 # blink red
        # push reset button of mcu
                jump 0x0013000 # blink green
```

quit