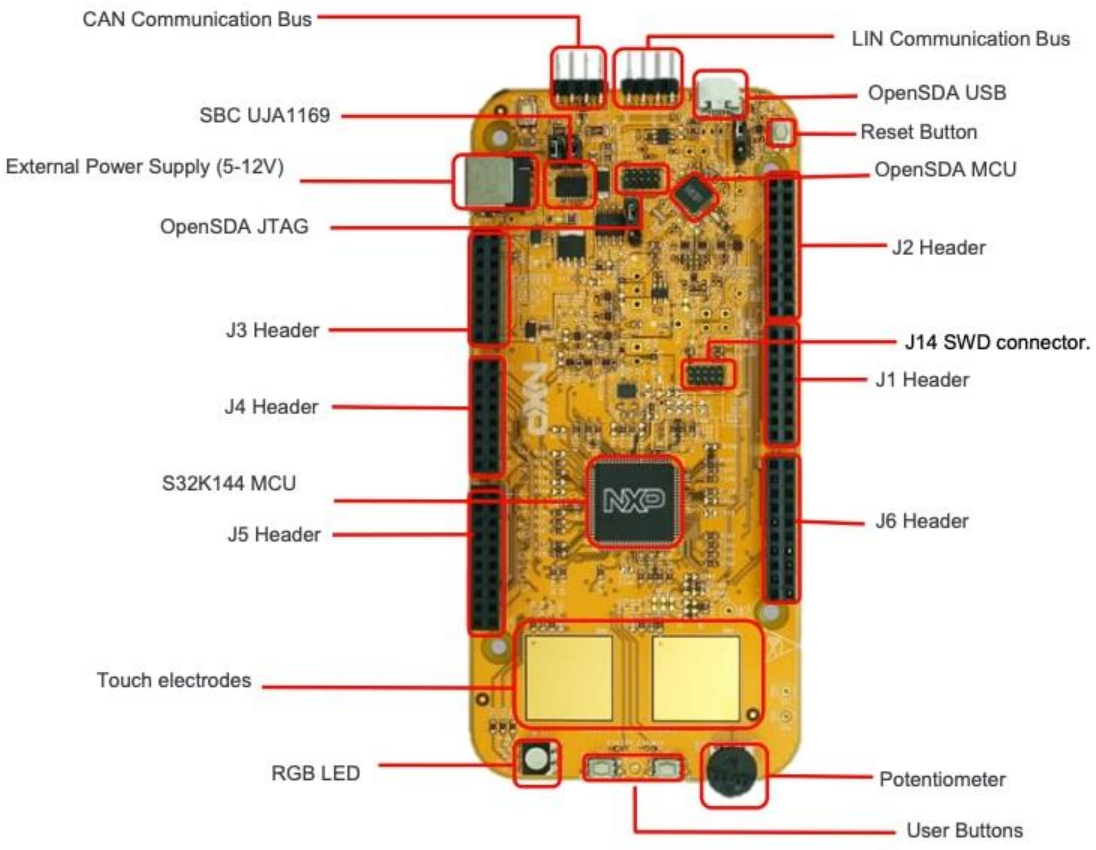
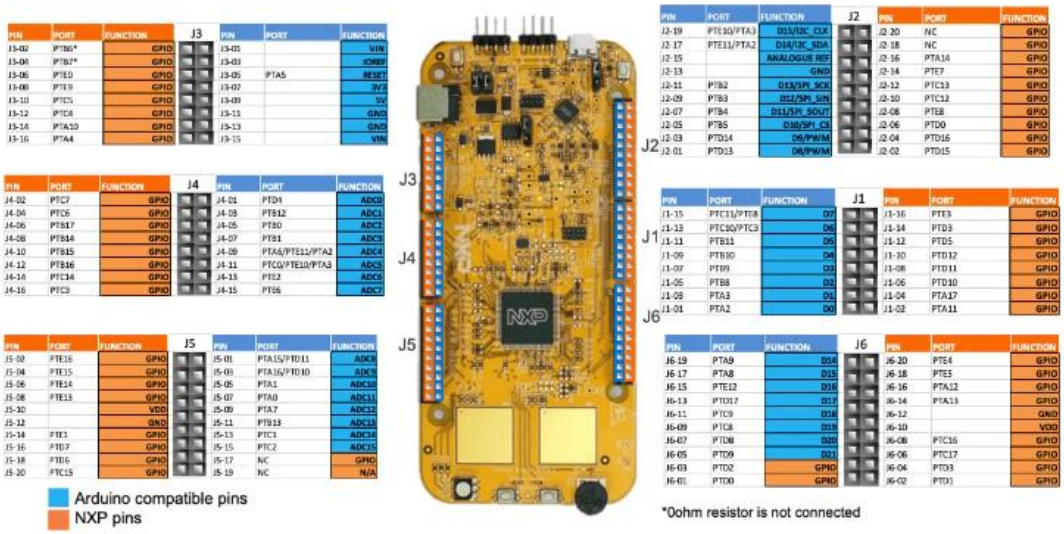
Applies for the S32K144EVB evaluation board (`REV B`)

1.1 Get to Know Your Evaluation Board



1.2 Understanding the Header/Pinout



1.3 Understanding the HMI Mapping:

Component	S32K144
Red LED	PTD15 (FTM0 CH0)
Blue LED	PTD0 (FTM0 CH2)
Green LED	PTD16 (FTM0 CH1)
Potentiometer	PTC14 (ADC0_SE12)
SW2	PTC12
SW3	PTC13
OpenSDA UART Tx	PTC7 (LPUART1_TX)
OpenSDA UART Rx	PTC6 (LPUART1_RX)
CAN Tx	PTE5 (CAN0_TX)
CAN Rx	PTE4 (CAN0_RX)
LIN Tx	PTD7 (LPUART2_TX)
LIN Rx	PTD6 (LPUART2_RX)
SBC_SCK	PTB14 (LPSPI1_SCK)
SBC_MISO	PTB15 (LPSPI1_SIN)
SBC_MOSI	PTB16 (LPSPI1_SOUT)
SBC_CS	PTB17 (LPSPI1_PCS3)

You can watch the video instruction here: Get Started with the S32K144EVB | NXP Semiconductors You can use the **OpenSDA** to debug for more convenience.

Plug It In

3.1 Set Up jumpers in S32K144EVB evaluation board

Jumper	Setting	Description
J104	1-2	Reset signal to OpenSDA, use to enter into OpenSDA Bootloader mode
	2-3 (Default)	Reset signal direct to the MCU, use to reset S32K144
J107	1-2	S32K144 powered by 12 V power source
	2-3 (Default)	S32K144 powered by USB micro connector
J109/J108	1-2 (Default)	Removes CAN termination resistor

3.2 Plug In the 12 V Power Supply

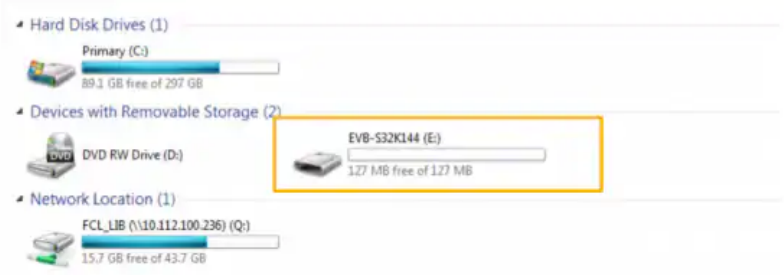
The S32K144EVB evaluation board powers from a USB or external 12 V power supply. By default USB power is enabled with `J107` jumper (2-3 closed).

Connect the USB cable to a PC using a USB cable and connect other end of USB cable (microUSB) to mini-B port on to `J7` on your S32K144EVB.

Allow the PC to automatically configure the USB drivers if needed. Debug is done using OpenSDA through `J7`.

Note: When powered through USB, LEDs `D2` and `D3` should light green.

Once the board is recognized, it should appear as a mass storage device in your PC with the name EVB-S32K144.



The S32K144EVB evaluation board is preloaded with a software in which red, blue and green LEDS will toggle at different rates: