



## 4 FRDM-KL25Z Hardware Overview

The features of the FRDM-KL25Z include:

- MKL25Z128VLK4 in an 80 LQFP package
- Capacitive touch slider
- MMA8451Q accelerometer
- Tri-color (RGB) LED
- Flexible power supply options USB, coin cell battery, external source
- Battery-ready, power-measurement access points
- Easy access to MCU I/O via Arduino ™ R3 compatible I/O connectors
- Programmable OpenSDA debug interface with multiple applications available including:
  - Mass storage device flash programming interface
  - P&E Debug interface provides run-control debugging and compatibility with IDE tools
  - CMSIS-DAP interface: new ARM standard for embedded debug interface
  - Data logging application

Figure 1 shows a block diagram of the FRDM-KL25Z design. The primary components and their placement on the hardware assembly are pointed out in Figure 2.

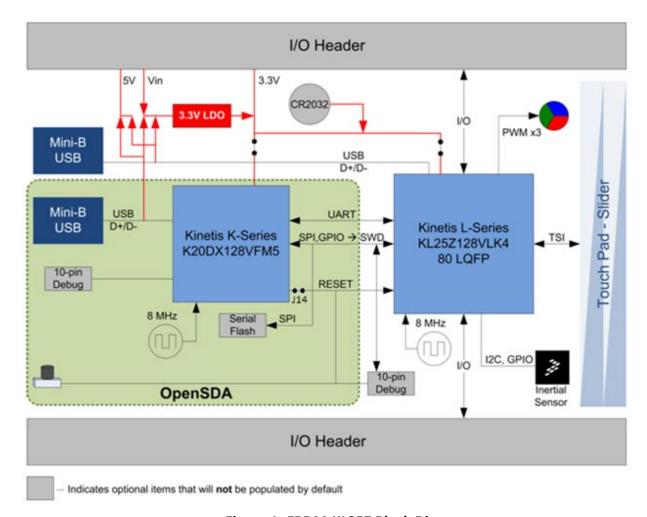


Figure 1. FRDM-KL25Z Block Diagram

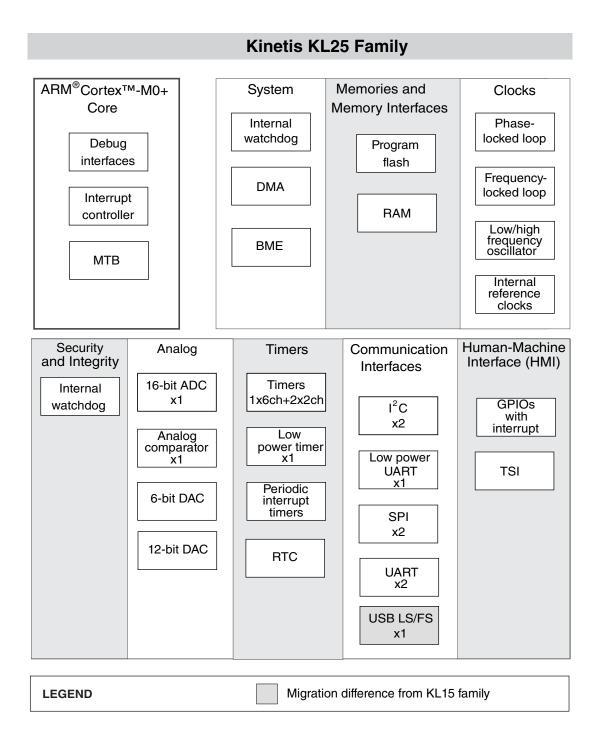


Figure 1. Functional block diagram