Quick Start Guide
FRDM-KW41Z

FREEDOM DEVELOPMENT PLATFORM

GET TO KNOW THE FRDM-KW41Z

Push Buttons
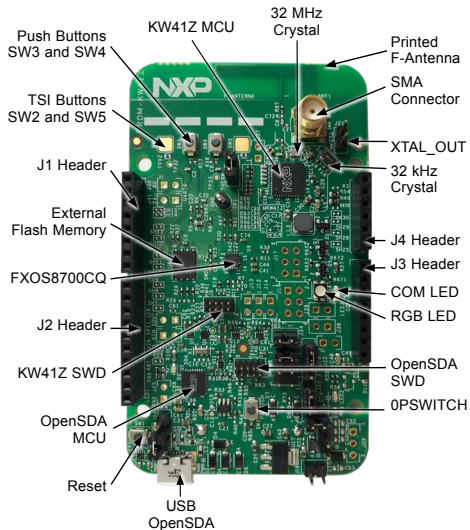SW3 and SW4

KW41Z MCU

32 MHz
Crystal

Printed
F-Antenna

SMA
Connector

TSI Buttons
SW2 and SW5

XTAL_OUT

32 kHz
Crystal

J1 Header

External
Flash Memory

J4 Header

J3 Header

FXOS8700CQ

COM LED

RGB LED

J2 Header

KW41Z SWD

OpenSDA
SWD

OpenSDA
MCU

0PSWITCH

Reset

USB
OpenSDA

Figure 1: FRDM-KW41Z Board Components

1 – PTC6
2 – PTC7
3 – PTC19
4 – PTC16
5 – PTC4
6 – PTC17/PTC5
7 – PTC18/PTC1
8 – PTB0

ADC0_DM0/PTC2 – 6
PTB1/PTC3 – 5
PTB3 – 4
PTB2 – 3
PTB18 – 2
ADC0_DP0 – 1
P5-9V VIN – 8
GND – 7

1 – PTC5
2 – PTC1
3 – PTA19
4 – PTA16
5 – PTA17
6 – PTA18
7 – GND
8 – VREFH / VREF_OUT
9 – PTC3
10 – PTC2

GND – 6
P5V_USB – 5
P1V8_3V3_BRD – 4
RST_TGTMCU_b – 3
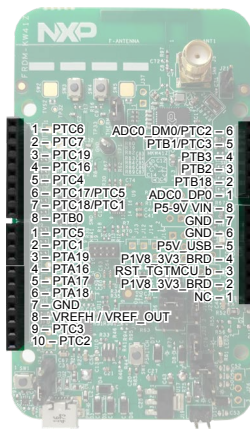P1V8_3V3_BRD – 2
NC – 1

Figure 2: FRDM-KW41Z Board Connections

HOW TO GET STARTED

1. Connect the FRDM-KW41Z board to a PC using the included micro-USB cable to the USB OpenSDA connector of the FRDM-KW41Z.

2. Your FRDM-KW41Z RGB LED should start cycling through the colors Red, Green and Blue when you connect the board.

3. Explore more out-of-box demos and download software and tools on **www.nxp.com/FRDM-KW41Z/startnow**.

4. Enjoy your design freedom with the FRDM-KW41Z.

SUPPORT

Visit **www.nxp.com/support** for a list of phone numbers within your region.

WARRANTY

Visit **www.nxp.com/warranty** for complete warranty information.

Get Started

Download installation software and documentation under **"Jump Start Your Design"** at **www.nxp.com/FRDM-KW41Z**.

The following information is provided per Article 10.8 of the Radio Equipment Directive 2014/53/EU:

(a) Frequency bands in which the equipment operates.

(b) The maximum RF power transmitted.

PN	RF Technology	(a) Freq Ranges (EU)	(b) Max Transmitted Power
FRDM-KW41Z	BLE	2360 MHz – 2483 MHz	3.5 dBm
	IEEE 802.15.4	2360 MHz – 2483 MHz	3.5 dBm

EUROPEAN DECLARATION OF CONFORMITY
(Simplified DoC per Article 10.9 of the Radio Equipment Directive 2014/53/EU)

This apparatus, namely FRDM-KW41Z Freedom Development Platform, conforms to the Radio Equipment Directive 2014/53/EU.

The full EU Declaration of Conformity for this apparatus can be found at this location:
www.nxp.com/FRDM-KW41Z

www.nxp.com

THREAD
CERTIFIED
COMPONENT