IA611 Xplained Pro Extension Kit Quick Start Guide
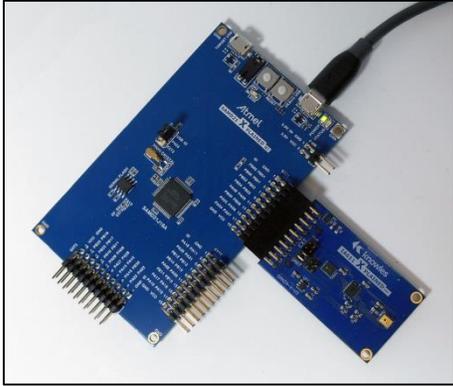
Figure 1   *IA611 Xplained Pro Connected to SAM D21 Xplained Pro Development Board.*

1. Install Atmel Studio 7 from **microchip.com/ avr-support/atmel-studio-7**.

2. Locate and install the *IA611-RDI-01 Xplained Pro VoiceQ Sample Extension* from the Microchip Gallery (**Extensions and updates** dialog box) or extract the sample project provided by Knowles.

3. Plug the **IA611 Xplained Pro** board into the **SAM D21 Explained Pro** MCU **EXT1** as shown. Note

   NOTE   *The default project is built for UART so leave the jumpers in the default UART position.*

4. Connect a micro USB cable between the **Debug USB** connector and your computer's USB port.

5. Launch Atmel Studio 7 and select **File -> New -> Example Project…**

6. Expand the **Knowles – Knowles Corporation** project, select **IA611-SAM D21 – atsamd21j18a** and click **OK**.

7. Check the **I accept the license agreement** checkbox and click **Finish**.

8. Select **Build -> Rebuild Solution**.

9. Once the build process completes, click on the green arrow or press function key **F5** to start debugging. This will flash the compiled binary on SAM D21 board and start executing.

10. Say the wakeup keyword phrase "Hello VoiceQ" followed by one of the command phrases below and observe the state of **LED0**.

    NOTE   *If the command phrase is not said within six seconds, the keyword will time out as indicated by LED0 blinking six times.*
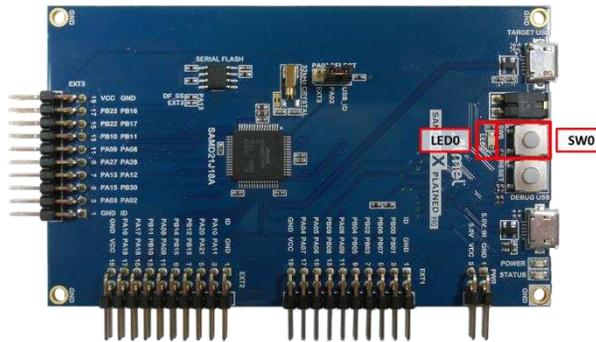
Figure 2   *LED0 on SAM D21 Development Board*

WakeUp Keyword	LED0 Blinks	Command	LED0 Blinks
Hello VoiceQ	1 time	Switch the Light	2 times
		Next Song	3 times
		Biadu-Yi Xia (by do ee sha)	4 times