Getting Started Guide

nRF ready Microphone

Reference Design Kit

nRF6915 / AKMS_MIC_2

www.akm.com

COO: Norway

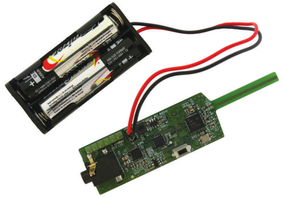
www.nordicsemi.com

1. Register at www.nordicsemi.com and download all kit software and documentation

1. Go to www.nordicsemi.com.
2. Log in to your Nordic **MyPage** account (or create an account first if you don't already have one).
3. Select **My Products** from the left menu.
4. From the drop-down list box for **Add Product**, select **nRFready Microphone**.
5. Click **Add**.
6. Click the **Downloads** link in the **Overview**, **My Products** table. Available documentation and software are listed on the **Downloads** tab.

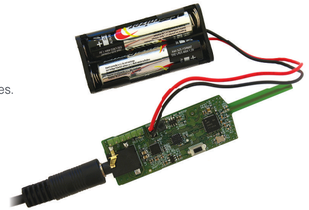
2. Power the microphone board

1. Connect the battery pack to the microphone board, and ensure that the red cable wire is connected to the microphone board pin labeled with the "+" sign. See the picture to the right.
2. Insert two AAA batteries in the battery pack.



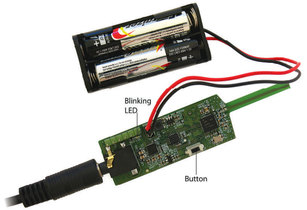
3. Hook up the audio source to your microphone board

Connect a full-differential microphone to the 3.5 mm jack (mini jack). Alternatively an MP3 player can be used for demonstration purposes.



4. Turn on the microphone board

1. Press the button (see the picture to the right) until the LED lights up, then release the button.
2. After some seconds, the LED starts to blink. This indicates that the microphone is waiting for the receiver board to be turned on.



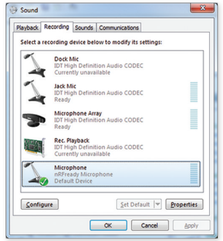
5. Connect and power the second microphone board

Repeat steps 2-4 in this Getting Started Guide, for the second microphone.

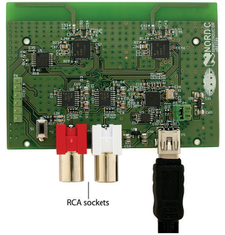
6. Power the receiver board

1. Connect the USB cable available from your Kit, from your computer to the receiver board.
2. After some seconds, continuous light will emit from the LEDs on the receiver board and the two microphone boards. This indicates that the microphone boards are streaming audio to the receiver.

7. Check that nRFready Microphone is the computer's recording device



1. If in Microsoft Windows 7, select **Control Panel** from your **Start** menu.
2. Activate the **Sound** item from the **Control Panel** dialog.
3. Activate the **Recording** tab in the **Sound** dialog.
4. Select **nRFready Microphone** from the list and click **Set Default**. See the picture to the right from a Windows 7 installation.
5. Press **OK** to confirm that the nRFready microphones now are set up as your computer's default recording devices.
6. The application **Sound Recorder** (available from the **Start** menu on your computer) can be used to record an audio file to test your recording device.

8. Use RCA socket instead of computer for audio output

You do not need to use your computer to record sound. If you want an alternative source for audio output, disregard the previous step and instead use the RCA socket located on the receiver board. See the picture to the right.