

HEART RATE SENSOR APP NOTE

1. Overview

This app note describes the Heart rate service and gives the BPM values along with graphical representation and sensor location using the IoT Toolbox mobile application.

2. Hardware Requirements

- Carrier Main Board(JN5189)
- ARNO Mezzanine Card
- Mini USB Cable
- PC or Laptop

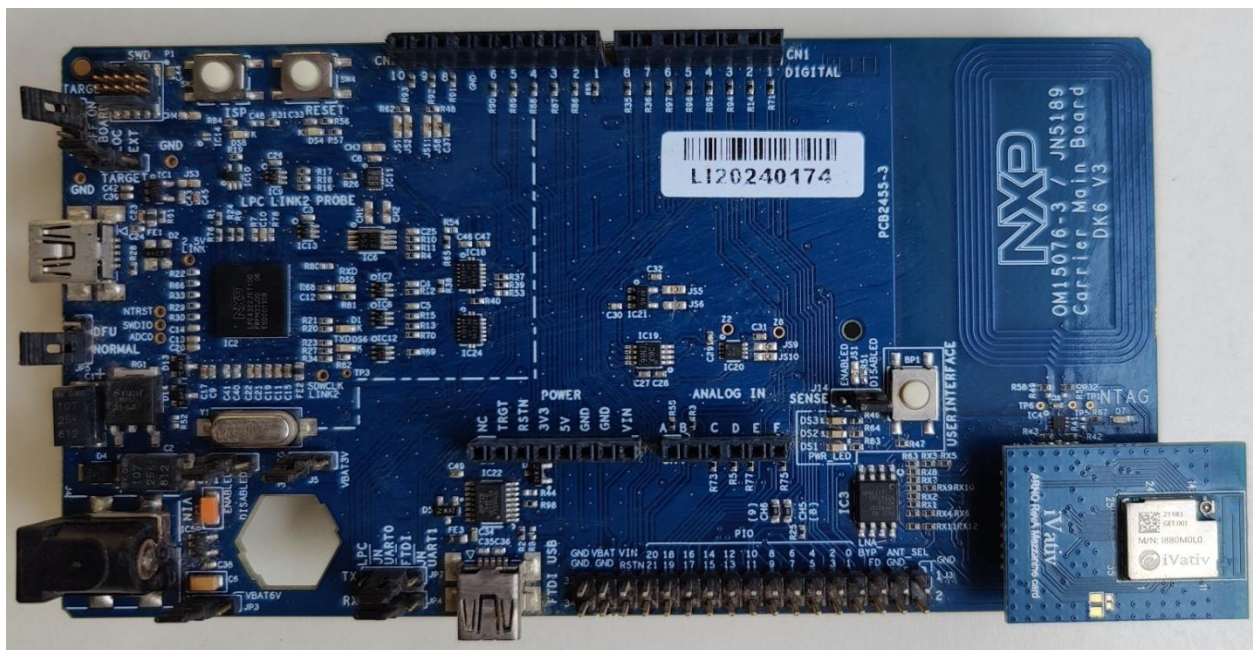
3. Software Requirements

- MCUXpresso IDE
- QN9090 SDK latest version
- Install IoT Toolbox in mobile from App Store/Google Play store

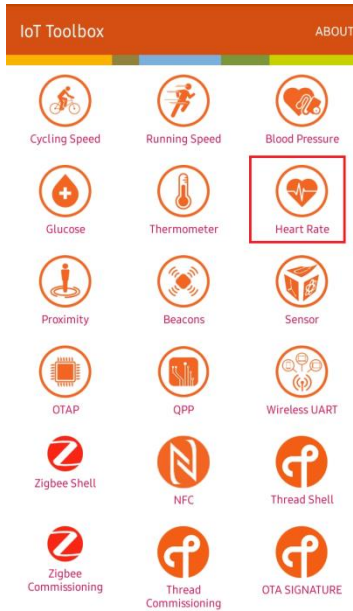
4. Procedure

Note: To make changes in QN9090 SDK for the ARNO module refer to ARNO module working procedure in ARNO User Guide.

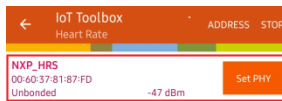
- Insert the ARNO Mezzanine Card on the Carrier board as shown in below figure



- Connect the ARNO DVK to the PC or Laptop with the mini USB cable
- Compile and run the application
- Press USER INTERFACE button on the DVK to advertise ARNO
- Open the IoT Toolbox in the mobile
- Tap on the Heart Rate



- Tap on NXP_HRS



- After DVK is connected DS2 LED is solid ON indicating connection. Observe the data and Status: Connected on mobile application.

