

# WIRELESS UART APP NOTE

## 1. Overview

The Wireless UART App Note describes the implemented profiles and services, user interactions, and testing methods for the Wireless UART application.

## 2. Hardware Requirements

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

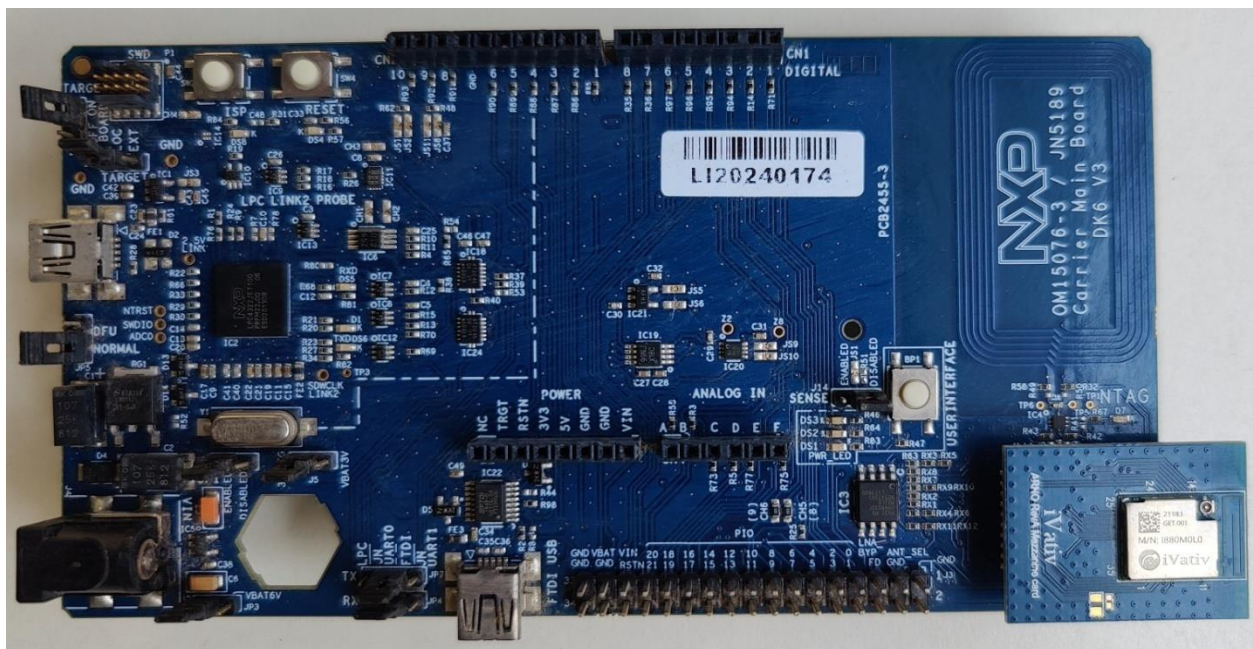
## 3. Software Requirements

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

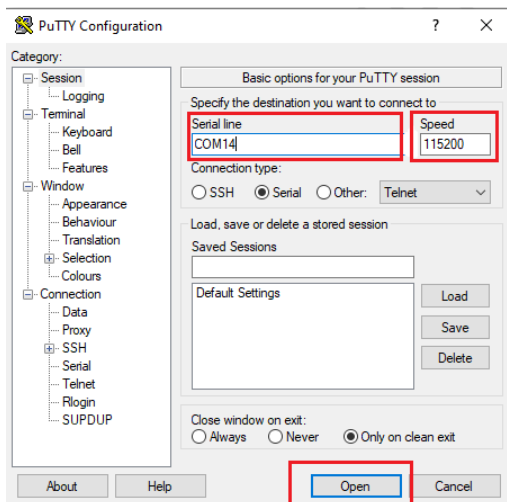
## 4. Procedure

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

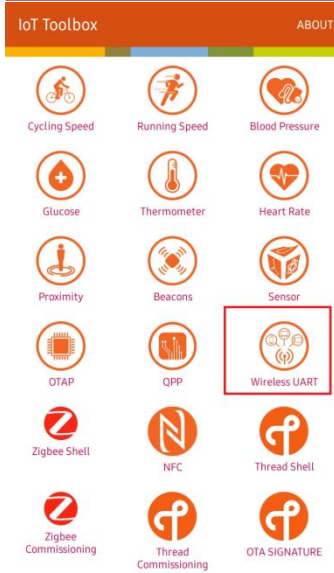
- Insert the ARNO Mezzanine Card on the Carrier board as shown in below figure



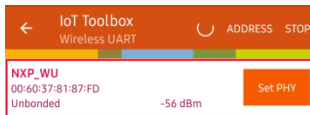
- Connect the ARNO DVK to the PC or Laptop with the mini USB cable
- Compile and run the application
- Press USER INTERFACE button on the DVK to advertise ARNO
- Open the device manager and check for the COM port
- Open the putty terminal in PC, change the serial line with the com port number and the speed with the 115200 and then click on open



- Open the IoT Toolbox in the mobile
- Tap on the Wireless UART



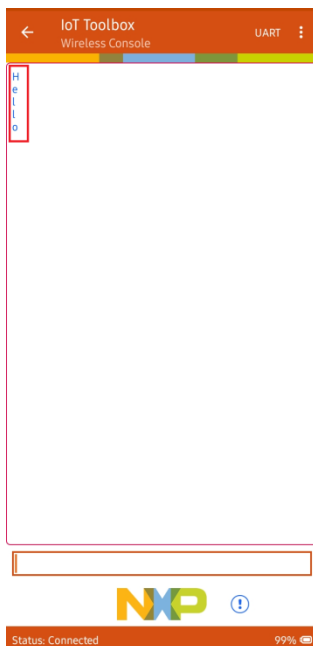
- Tap on NXP\_WU



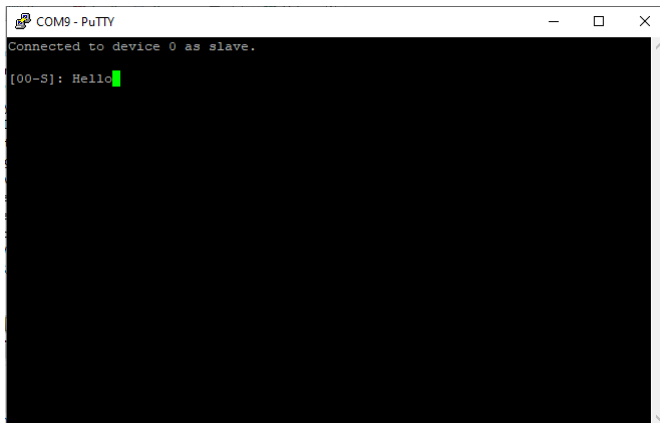
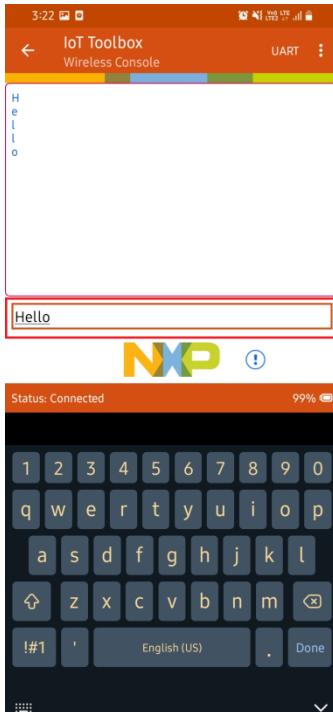
- After DVK is connected, a window will open to enter text. On the DVK, DS2 LED is solid ON indicating connection. Observe Status: Connected on mobile application.



- Enter some text on the serial terminal (putty) same text will be displayed on the mobile application.



- Enter some text on mobile phone as shown in below figure the same text will be displayed on the serial terminal (putty).



- Press USER INTERFACE button for 5 seconds and release to disconnect the link. Observe Status: Disconnected on mobile application