Using AT Commands on BT832 Series Bluetooth 5 Modules

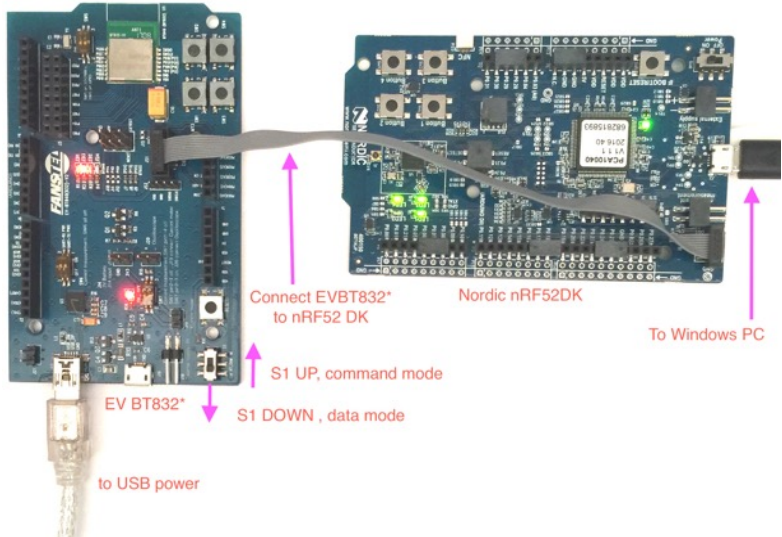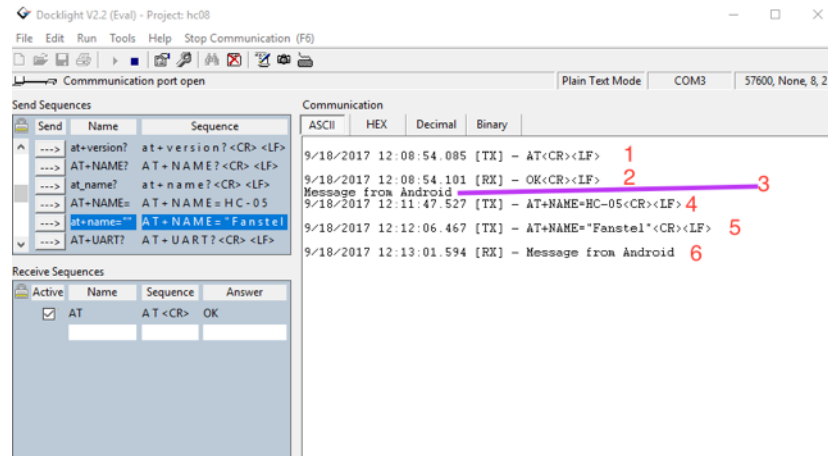## Programming AT Command Codes

If your evaluation board is not pre-programmed with AT command codes, please download BT832_AT_57600_V5.rar from http://www.fanstel.com/download-document/

Unzip and extract the following files.

- BT832_AT_57600_V5.hex (For BT832Series modules without power amplifier)
- BT832X_AT_57600_V5.hex (For BT832X and BT832XE with power amplifier)
- s132_nrf52_5.0.0_softdevice.hex; (Bluetooth 5 SoftDevice from Nordic)
- hc08.ptp; (Scripts to run at Docklight software, Windows PC)

Connect EVBT832* to nRF52 DK

Nordic nRF52DK

To Windows PC

EV BT832*

S1 UP, command mode

S1 DOWN , data mode

to USB power

- Start **BlueNor nrf5x** app (from Google Play) on Android phone. Scan for Bluetooth device.
- Select **BlueNor 52832X**.
- When Bluetooth connection is established, a message can be sent from Android phone to PC while EV BT832 is in command mode as indicated by **3**.
- Set S1 on EV BT832 to data mode.
- Click **—-> AT + NAME=HC-05**, as indicated by **4**.

Select device
Available devices:
BLE BlueNor 52832X
DD:21:2F:1F:F4:CC
-53 dBm
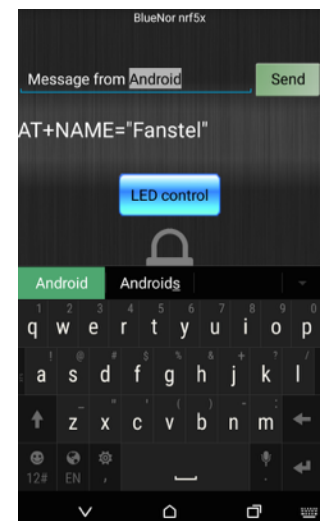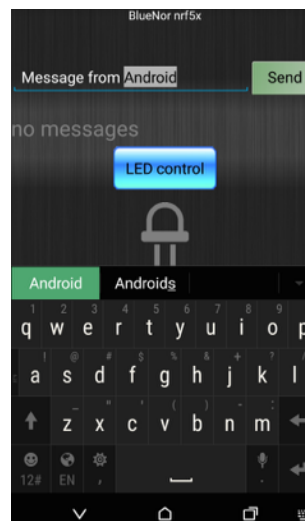BLE Unknown device
47:7D:2F:4C:77:6D
-84 dBm
Cancel

To program Bluetooth 5 AT Command codes:

- Connect evaluation board as above.
- Start nRFgo Studio on your Windows PC.
- Select the Segger board
- Optional for OTA only: select and program Bootloader
- Select and program SoftDevice hex codes.
- Select and program BT832*_AT_57600_V5.hex.

Using AT Commands

- Disconnect nRF52DK from EV BT832 and PC.
- Connect EV BT832 mini USB port to a PC.
- Start Docklight software
- Click **File**, **Open Project…**, select **hc08**, **Open**
- Click **Tools**, **Project Setting…**, select **COM port** (the one with Silicon Labs CP210x USB), click **OK**.
- Set S1 on EV BT832 to command mode.
- Click **—-> AT** as indicated by **1** in the screenshot.
- BT832 replies with OK as indicated by **2**.

- Click **—->AT+NAME="FANSTEL"** as indicated by **5**. **AT +NAME="FANSTEL"** is displayed on Android phone.
- Phone sends "Message from Android", it is displayed as **6**.