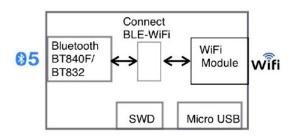
# BWG832F/X, BWG840F/X Quick Start Guides



## Bluetooth to WiFi Gateway

Gateway consists of 2 major components.

A WiFi module, ESP8266 in BWG832F/X or ESP32 in BWG840F/X. WiFi module establishes and maintain



TAG connect to nRF52DK

DC power

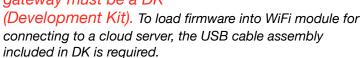
connection with cloud server via a WiFi router.

A Bluetooth 5 module - BT832F/X and BT840F/X for BWG832F/X and BWG840F/X, respectively.

Parts included in the package:

- A gateway
- · A wall mount bracket
- An AC adapter, an USB cable

Your first development gateway must be a DK



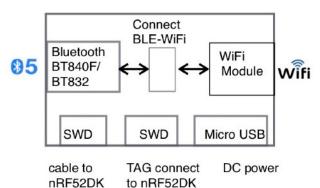


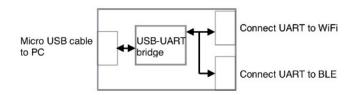
# **Development Kit**

A DK consists of:

- A gateway with magnetic mount
- A wall mount bracket
- An AC adapter, an USB cable
- An USB cable assembly for connecting USB port to WiFi or Bluetooth module







• A 10-pin cable for connecting to Nordic nRF52DK or nRF52840DK.

# WiFi Firmware Development

Mongoose OS is used. To install Mongoose tools in your PC, follow instructions in this link.

https://mongoose-os.com/docs/quickstart/setup.html

#### Fanstel Document, Hex and Source Codes

Please download schematics, firmware, Android OS apk, app source codes, and data sheets/developer's manual from: http://www.fanstel.com/download-opensource/

## Nordic nRF52 Development

Nordic nRF52 relays messages between cloud server and other nodes in Bluetooth mesh. An nRF52DK or an nRF52840DK and a TAG connect cable TC2050-IDC-NL-050-ALL are required to change boot-loader. If bootloader is loaded, Over-The-Air DFU can be used to update application software and SoftDevice.

Nordic SDK with example projects. https://developer.nordicsemi.com/nRF5 SDK/

Nordic DevZone, Q&A, Blog.

https://devzone.nordicsemi.com/tutorials/b/getting-started/ posts/development-with-gcc-and-eclipse

Download and install nRF5x-Command-Line Tools https://www.nordicsemi.com/Software-and-Tools/ Development-Tools/nRF-Command-Line-Tools/ Download#infotabs

nRF Connect: PC application for configuring and evaluating Nordic SoCs.

https://www.nordicsemi.com/Software-and-Tools/ Development-Tools/nRF-Connect-for-desktop

#### Segger tools:

https://www.segger.com/downloads/jlink/#J-LinkSoftwareAndDocumentationPack