

Agora | Product Development Kit

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1. Introduction

The Agora comes pre-loaded and ready to run the Bluetooth Low Energy (BLE) demonstration application. The following describes how to monitor the Agora sensors through a smartphone BLE test app.

<https://github.com/EmbeddedPlanet/ep-agora-ble-reference-app>

2. Getting Started

a. Power Kit

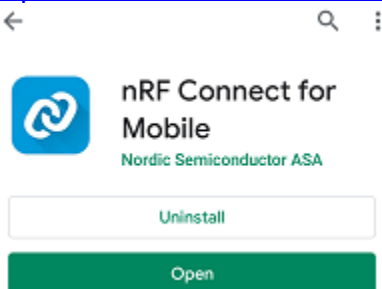
Power the Flidor carrier board with the wall adapter connected to the barrel jack and set the carrier board slide switch to ON.

The status LED on the Agora will blink slowly indicating that the sensors on the board have initialized and the Agora is now advertising over BLE.

b. Get Smartphone Application

Load the *Nordic nRF Connect App* on a smartphone.

<https://www.nordicsemi.com/Products/Development-tools/nrf-connect-for-mobile>



c. View Agora Sensor Data

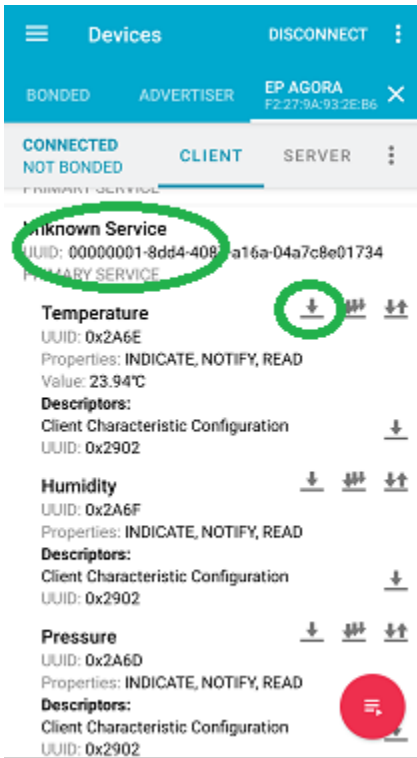
Open the nRF Connect application on the smartphone, find the "EP Agora" in the list of devices being scanned and press connect.



Once connected the status LED on the Agora will blink faster indicating that the Agora has connected to a peer over BLE.

The Agora sensors appear in the application as services; read data from the BME680 temperature sensor by selecting Unknown Service with UUID: 00000001-8dd4.....

Click on the down arrows to fetch data.

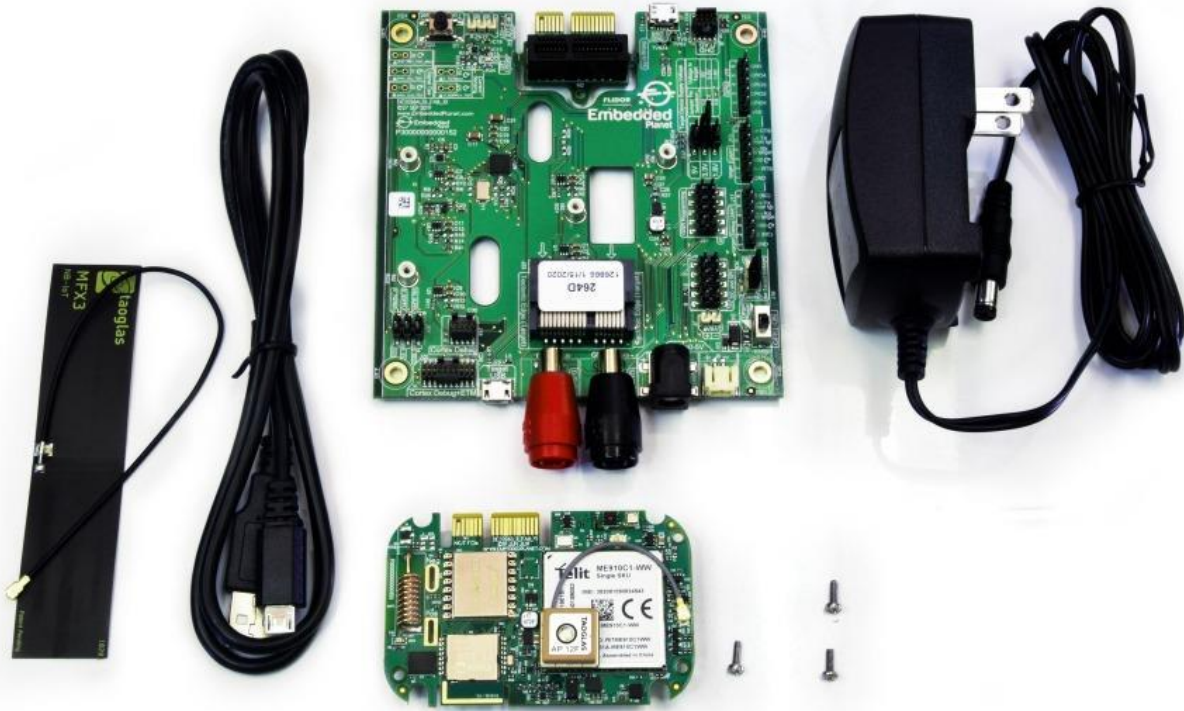


3. Next Steps: Example Applications

Links to additional reference applications:

Name	Description
ep-agora-ble-reference-app	Bluetooth Low Energy reference application (used above)
mbed-os-example-blinky	Blinky Mbed OS example
mbed-os-example-cellular	Example cellular application for Mbed OS
mbed-os-example-lorawan	Example LoRaWAN application for Mbed OS
mbed-os-example-pelion	Pelion Device Management Client example for Mbed OS
mbed-os-example-ble	Example BLE applications for Mbed OS

4. Kit Contents



Kit contains:

- Flidor carrier board
- Agora (pre-assembled to carrier)
- Power adapter
- USB-A to USB micro cable
- GPS antenna (pre-assembled to Agora)
- Cell antenna (pre-attached to Agora)
- Mounting hardware (pre-assembled carrier standoffs and Agora mounting)

AGORA

Find out more about the Agora platform here:

<https://www.embeddedplanet.com/agora/>

FLIDOR

Find out more about the Flidor development board here:

<https://www.embeddedplanet.com/product-documentation/flidor>

5. Customer Support

Embedded Planet provides complete support for our product line. Embedded Planet technical support includes product assistance for EP firmware and hardware. Technical support can assist with setup, installation, configuration, documentation, product related questions, and expansion guidelines.

a. Contact Embedded Planet

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Solon, OH 44139
Phone: 216.245.4180
Fax: 216.292.0561
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b. Company Email

Sales: sales@embeddedplanet.com
Information Requests: info@embeddedplanet.com
Technical Support: support@embeddedplanet.com

DISCLAIMER

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- (2) SOFTWARE DEVELOPERS TO WRITE SOFTWARE APPLICATIONS FOR USE WITH THE END PRODUCT. THIS KIT IS NOT A FINISHED PRODUCT AND WHEN ASSEMBLED MAY NOT BE RESOLD OR OTHERWISE MARKETED UNLESS ALL REQUIRED FCC EQUIPMENT AUTHORIZATIONS ARE FIRST OBTAINED. OPERATION IS SUBJECT TO THE CONDITION THAT THIS PRODUCT NOT CAUSE HARMFUL INTERFERENCE TO LICENSED RADIO STATIONS AND THAT THIS PRODUCT ACCEPT HARMFUL INTERFERENCE. UNLESS THE ASSEMBLED KIT IS DESIGNED TO OPERATE UNDER PART 15, PART 18 OR PART 95 OF THIS CHAPTER, THE OPERATOR OF THE KIT MUST OPERATE UNDER THE AUTHORITY OF AN FCC LICENSE HOLDER OR MUST SECURE AN EXPERIMENTAL AUTHORIZATION UNDER PART 5 OF THIS CHAPTER.