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## 1. Overview

This document describes how to use BLEDK Air Patch Tool. This tool can save specific test items setting and transmits commands through BLEDK Dongle to Device BLEDK Module. These commands provides Device BLEDK Module EEROM access (Read/Write function) and some specific test items (Digital Input 、 Digital Output 、 Analog Input 、 PWM ).

## 2. Abbreviations

Abbreviation	Meaning
<b>BLEDK</b>	Bluetooth Low Energy Developing Kit
<b>LE</b>	Low Energy
<b>PC</b>	Personal Computer
<b>INI File</b>	Initialize File
<b>I/O Test</b>	Input/Output Test
<b>DUT</b>	Device Under Test
<b>PWM</b>	Pulse-width modulation
<b>AI Settings</b>	Analog Input Settings
<b>SAR ADC</b>	Successive-Approximation-Register Analog-to-Digital-Converters
<b>MAC Address</b>	Media Access Control Address
<b>CSV filer</b>	Comma-Separated Values filer
<b>COM Port</b>	Communication Port
<b>CMD</b>	Command
<b>UUID</b>	Universally Unique Identifier
<b>MP_Enable</b>	Mass Production Mode Enable

### 3. Hardware Environment

#### 3.1 Hardware Roles

Master role: BLEDK Dongle

Slave role: BLEDK Module (DUT)

#### 3.2 Environment Introduction

BLEDK\_AIR\_PATCH\_Tool runs on Windows PC or Notebook platform. This tool communicates with BLEDK Dongle through UART (COM Port) interface. BLEDK Dongle executes BLEDK Module configuration and test procedures by tool's commands through Bluetooth LE transactions.

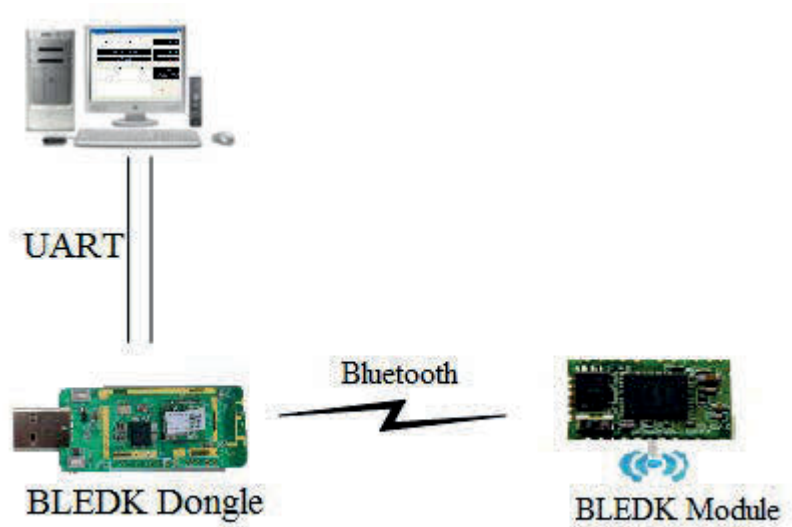


Figure 3.2-1 BLEDK Airpatch Environment.

### 4. Software Environment

There are two pages in BLEDK\_AIR\_PATCH\_Tool: Configuration page and Test page. In Configuration page, you can configure target project and access EEPROM of BLEDK Module. Test page provide several test cases for BLEDK Module. Hereafter are setup steps and function icon introduction for each page.

#### 4.1 Configuration Steps

Step 1: First of all, a “Setting” icon and a big “Load INI File” button will show up after you run this tool. The “Load INI File” button is used to load a \*.ini file for Tool initialization. You may find a default MPAP\_Default.ini file when you press this button. Please refer to section 4.2.3 to create and save your own \*.ini file.

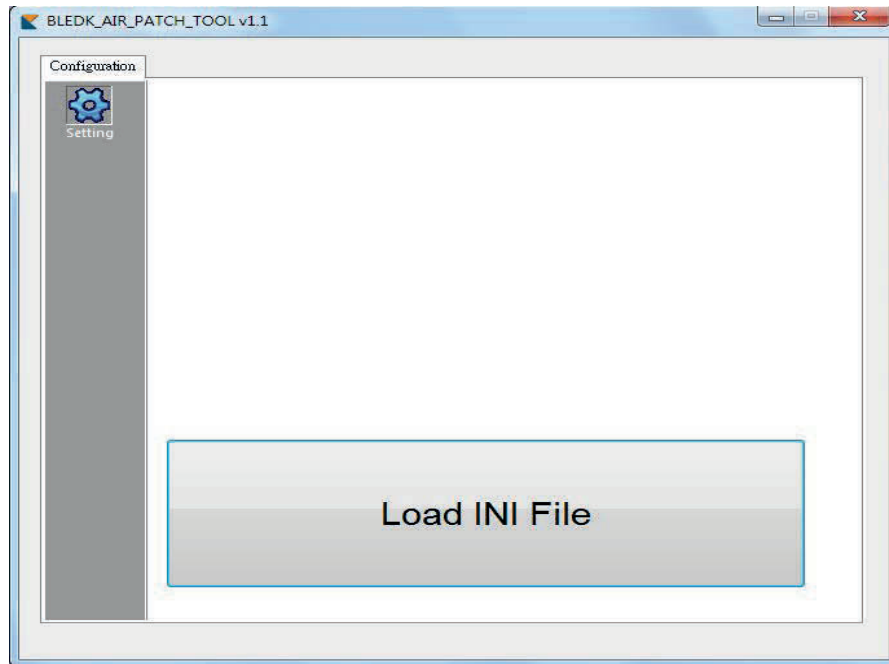


Figure 4.1-1 Setting icon.

Step 2: When the tool is well initialized, 8 icons will present on the left side. Please click “Access Port” icon to choose the correct COM Port and baud rate utilized by BLEDK Dongle.

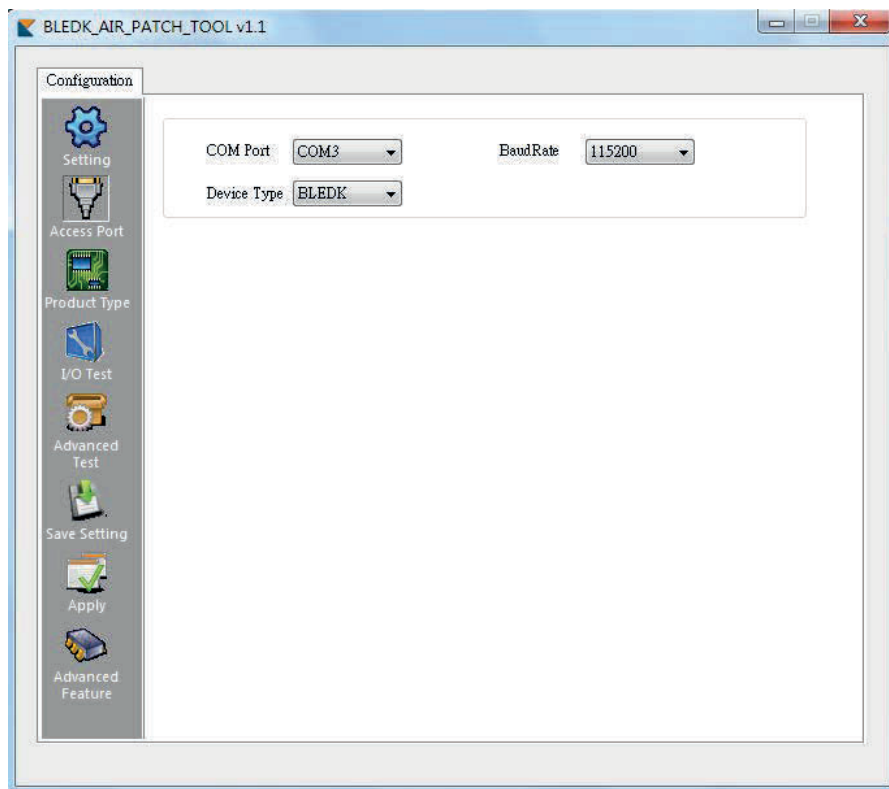


Figure 4.1-2 Access Port icon.

Step 3: Then click “Product Type” icon to choose the product type under testing (BM77SPP, BM78SPP or BM79SPP).

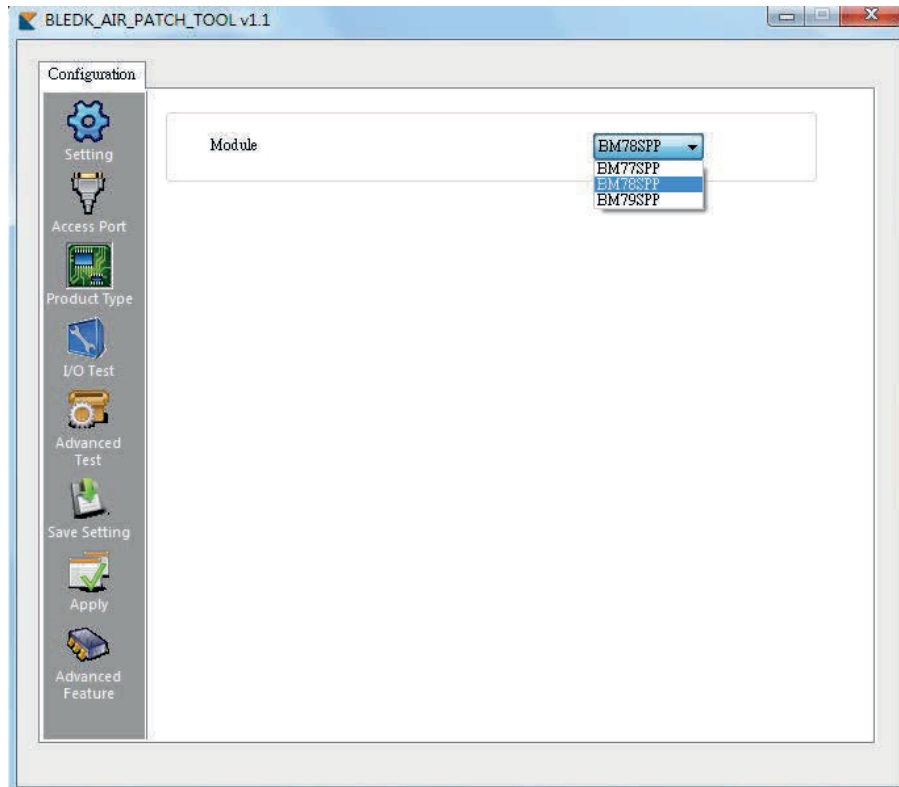


Figure 4.1-3 Product Type icon.

## 4.2 Introduction of Icons on Configuration Page

### 4.2.1 I/O Test

This icon is used to configure digital input and output test items.

#### [Digital Input]:

“Digital Input” test case is used to configure specific GPIOs’ expected input levels for DUT. When this test item is executed by clicking Apply icon (please refer to section 4.2.4), specific DTU’s GPIOs’ levels will be read out and compared with the respective expected levels. The compared results will be shown in Test Page after this test procedure is completed (please refer to section 4.3.2).

Operation procedure:

Step 1: Just check the GPIO (Input 0 ~ 23) you want to test and choose the expected level (High/Low).

Step 2: Click Apply icon to execute this test case.

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