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## FCC应用说明

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FCC Application Notes

V1.0

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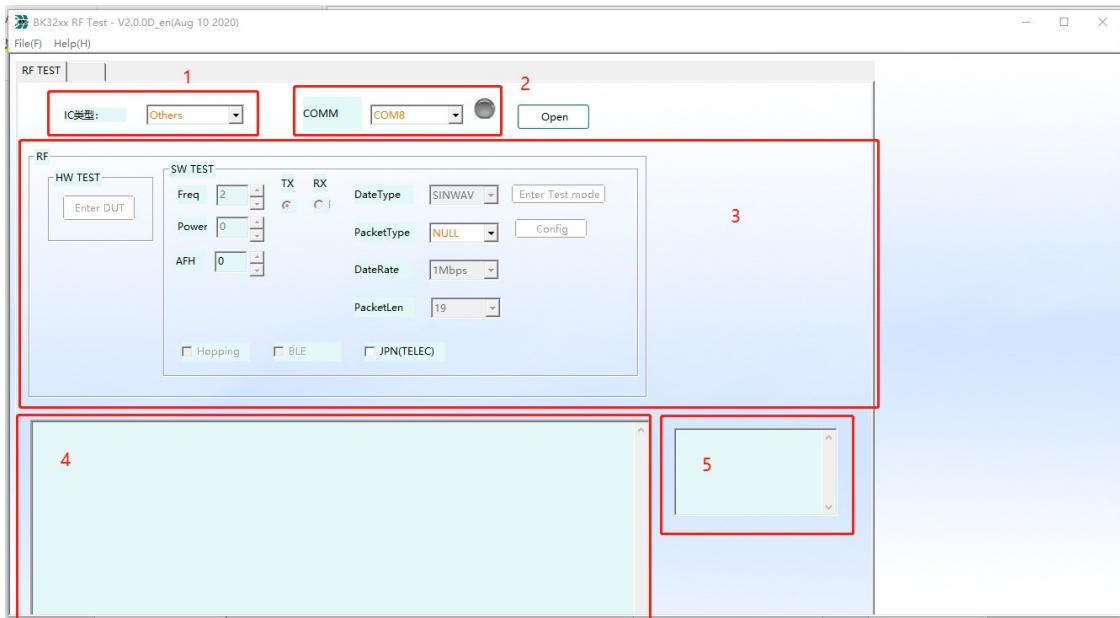




## 1. 概述 Overview

该工具应用于 BK3633 的 FCC 测试项目。This tool is used in the FCC testing program of BK3633.

## 2. 上位机介绍 Introduction to host computer



如上图标号所示：

- 1、 芯片选择区域，请选择 BK3633。
- 2、 待测板与电脑通讯的串口选择区域，请结合实际选择连接的串口。
- 3、 测试项目控制区，详情请看第三节。
- 4、 操作跟踪窗口，可以监控所下命令。
- 5、 Blocking 结果返回区域。

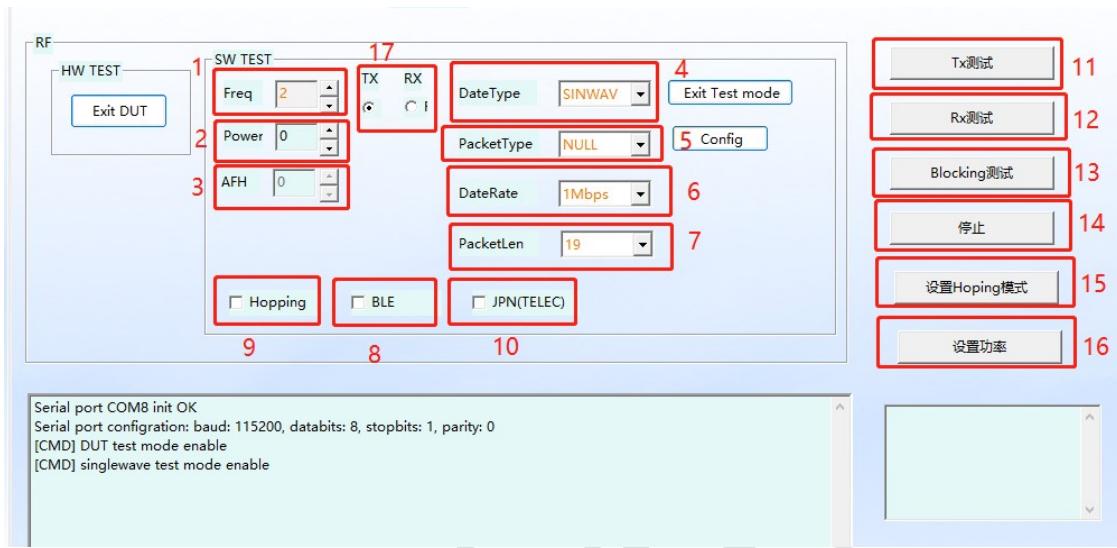
As shown in the diagram above:

1. Chip Selection Area: Please select BK3633.
2. Serial Port Selection Area for Communication between the Board Under Test and the Computer: Please select the appropriate serial port based on your actual setup.
3. Test Item Control Area: See Section 3 for details.
4. Operation Tracking Window: Allows you to monitor the commands issued.
5. Blocking Result Return Area.



## 3. 上位机测试项目区域说明

Description of the host computer test project area



如上图所示，BK3633 不用设定序号 3、5、9、10、17。

As shown in the figure above, BK3633 does not need to be assigned serial numbers 3, 5, 9, 10, and 17.

以下按序号来做说明：

The following explanations are provided in numerical order:

1: 频率设定。

1: Frequency setting.

2: 功率设定，这个只能配合 16 工作，不能在其他项目里同时设定。

2: Power setting. This can only be used with 16 and cannot be set in other items at the same time.

4: 选择测试的波形，是要单载波还是载波等，按照客户实际需求选择。

4. Select the waveform to be tested, whether it is a single carrier or a carrier wave, etc., according to the actual needs of the customer.

6: 选择 datarate，BK3633 支持 1M 和 2M，按照实际产品选择。

6: Select the datarate. The BK3633 supports 1M and 2M. Choose according to your actual product.

7: 可以默认参数，也可以按照客户需求修改，建议不用修改。

7: Default parameters are acceptable, or you can modify them according to customer needs. It is recommended not to modify them.

8: BK3633 必须勾选这项。

8: BK3633 This option must be checked.

11: 发送测试，同时需要设定 1、4、6、7。

11: Send the test, and you need to set 1, 4, 6, and 7.

12: 接收测试，同时需要设定 1、6。

12: Receive test, and you need to set 1 and 6.

13: Blocking test, requiring settings 1, 4, 6, and 7. Alternatively, connect a Bluetooth tester.

如果是手动测试，这项测试完成后，需要点击 14 项目，从 Blocking 结果返回区域看收到的包数。

If testing manually, after completing this test, click item 14 and check the received packet count in the Blocking results return area.

14: 结合 13 使用。<sup>14: Use in conjunction with 13.</sup>

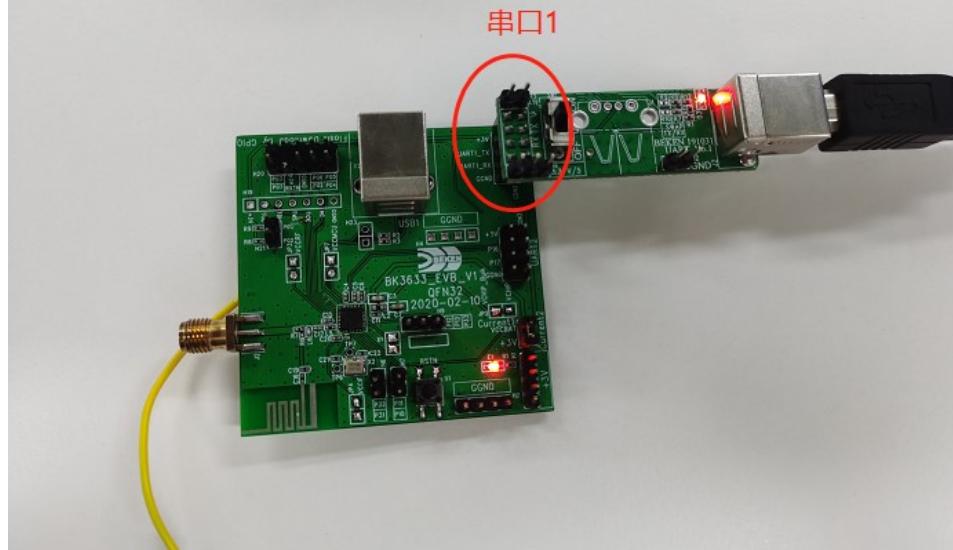
15: Hopping 测试。<sup>15: Hopping test.</sup>

16: 设定功率，结合 2 使用。<sup>16: Set the power, and use it in conjunction with 2.</sup>

#### 4. 待测试板连接说明 4. Connection instructions for the board to be tested

连接如下图所示，电脑外接串口工具，连接到待测板的串口 1 上。待测板按照软件设定的进入 FCC 测试的方式上电，进入待测状态。

The connection is shown in the diagram below. Connect the external serial port tool to the computer and connect it to serial port 1 of the board under test. Power on the board under test according to the software settings to enter FCC test mode, thus entering the test state.



## 5. 测试过程说明

- (1) 待测板通过串口连接到电脑。
- (2) 待测板按照 FCC 进入模式上电，进入 FCC 测试模式。
- (3) 上位机中 IC 类型选择 BK3633。下图 1 位置。
- (4) 选择连接的串口。下图 2 位置。
- (5) 点击 Open。下图 3 位置。
- (6) 点击 Enter DUT。下图 4 位置。
- (7) 点击 Enter Test mode。下图 5 位置。
- (8) 勾选 BLE 选项。下图 6 位置。
- (9) 选择对应需要测试的项目进行测试。下图 7 位置。

### 5. Test Procedure Description

Connect the board under test (DUT) to the computer via serial port.

Power on the DUT in FCC test mode to enter FCC test mode.

Select BK3633 as the IC type in the host computer. (See Figure 1 below.)

Select the connected serial port. (See Figure 2 below.)

Click Open. (See Figure 3 below.)

Click Enter DUT. (See Figure 4 below.)

Click Enter Test mode. (See Figure 5 below.)

Check the BLE option. (See Figure 6 below.)

Select the corresponding test item to be tested. (See Figure 7 below.)

