

Seeed XIAO BLE nRF52840 BLE Communication Distance Test Report

Test Module

Seeed XIAO BLE nRF52840 Sense, SKU: 102010469

Test Environment

Roadside, visible distance without any object obstruction

Test Tools List

Item	Quantity
Seeed XIAO BLE nRF52840 Board	5
Laptop	1
Cellphone(Huaiwei mate 30 pro)	1

Software Tools and Firmware Versions

Software	Detail
Serial Port Tool	Arduinio IDE built-in serial port tool
Firmware Version	Bluetooth protocol stack 7.3.0

Transmit Power

4dBm

Test Method

XIAO BLE broadcast, connection established via mobile nRF Connect software.

No.	Detail
1	Connecting XIAO BLE board to the computer and opens the Arduino serial port.
2	Check the serial port log to make sure the board works well
3	Open the nRF Connect app on the phone
4	Use the phone to scan XIAO BLE signal
5	Connect to XIAO BLE via BLE
6	The cell phone sends data through the nRF Connect app, the XIAO BLE receives the data and prints it through the serial port, disconnection.
7	Increase the distance between the phone and XIAO BLE and repeat steps 4 to 6
8	Until the XIAO BLE signal can no longer be scanned, terminate the test.

Test Results

Number	Transmit Power	Extreme Distance(meter)
Board 1	4dBm	107m
Board 2	4dBm	95m
Board 3	4dBm	109m
Board 4	4dBm	110m
Board 5	4dBm	117m