Taiwan LABAU

Datasheet of Bluetooth Module

BT820PC6E003A

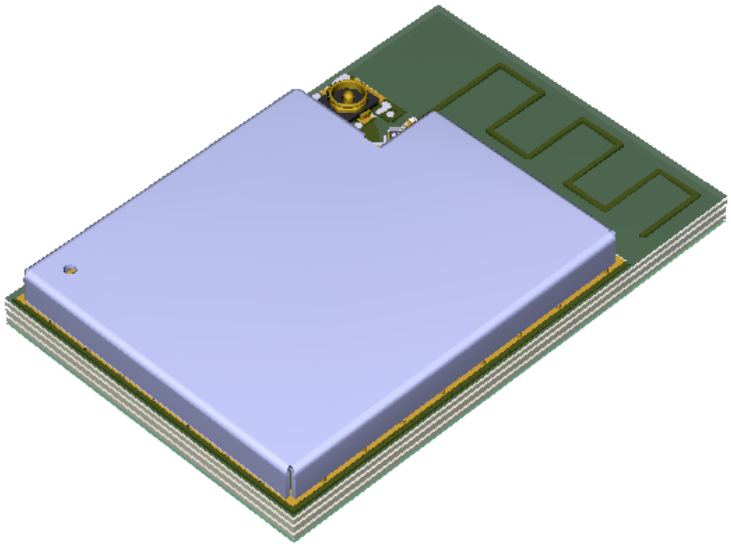
LABAU Technology Corp.

Revision History :

Date Revision Content Version
2023/09/19 First Version 1.0
Note:

1. Scope

The BT820PC6E003A is a low-power consumption module which has all of the Bluetooth functionalities.



2.Features

Bluetooth: BLE
Windows/ Linux/ Android OS supported.
RoHS compliant.

3. Board Specification

BT Chip： nFR52820

Antenna： Ant1

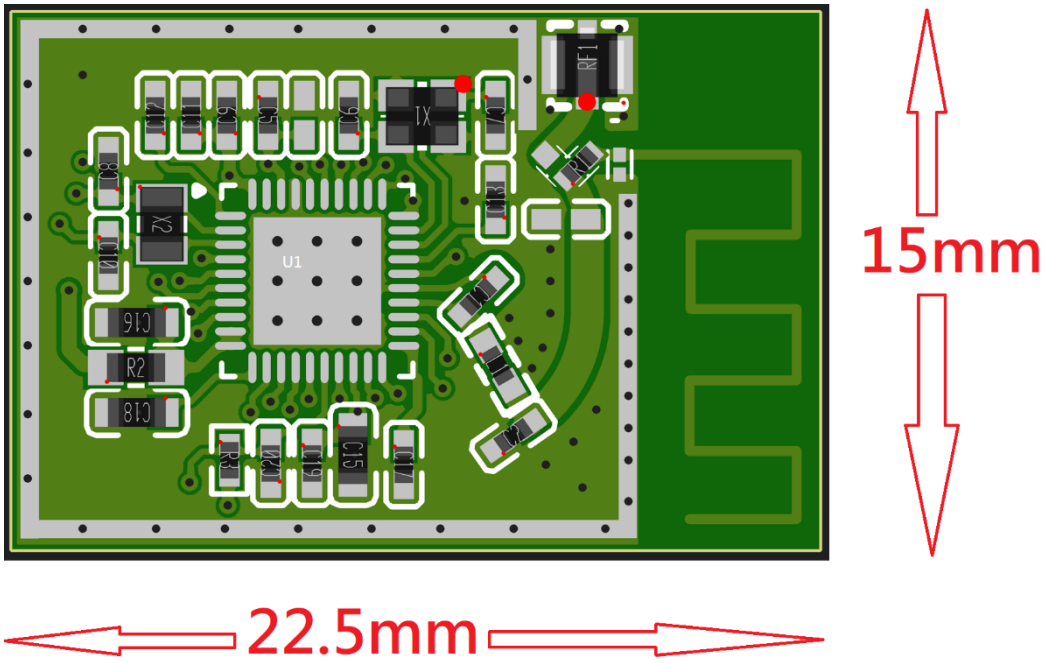
PCB dimension：22.5 x 15 x 1.0 mm

4.Environmental

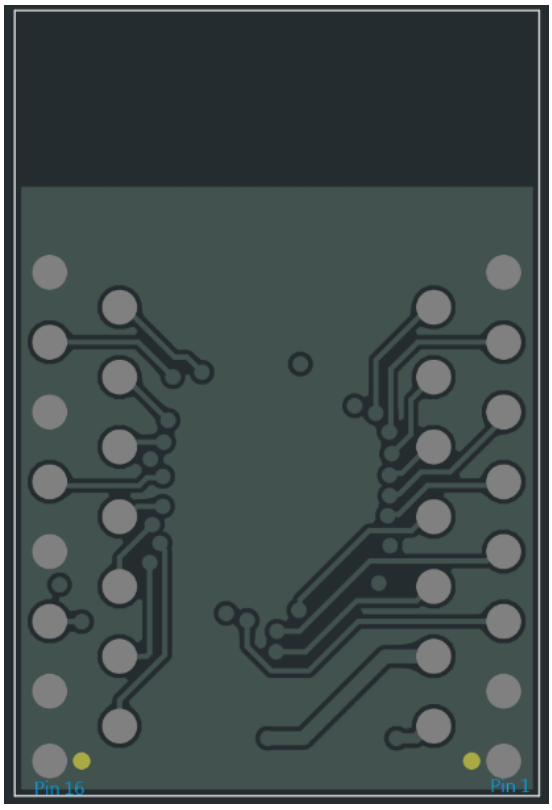
Operating temperature: -10 to 50℃

Storage temperature: -20 to 70℃

5.Mechanical Drawing



6.PIN Define



PinAssign			
1	GND	16	GND
2	VDD_nRF	17	D+
3	GND	18	GND
4	VBUS	19	D-
5	P0.07	20	P0.18/RST
6	P0.06	21	P0.14
7	P0.05/AIN3	22	GND
8	P0.04/AIN2	23	P0.15
9	P0.02/AIN0	24	P0.20
10	P0.28	25	IO
11	P0.03/AIN1	26	GND
12	P0.30	27	CLK
13	P0.29	28	P0.16
14	P0.08	29	P0.17
15	GND	30	GND

FCC 15.19

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC 15.21:

The changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

FCC 15.105

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates,

uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception,

which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

—Reorient or relocate the receiving antenna.

—Increase the separation between the equipment and receiver.

—Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

—Consult the dealer or an experienced radio/TV technician for help.

RF exposure warning

The antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm

from all persons and must not be co-located or operating in conjunction with any other transmitter,

except in accordance with FCC multi-transmitter product procedures.

OEM Integration Instructions：
This device is intended only for OEM integrators under the following conditions：
The module can be used to installation in other host. The antenna(s) used for this transmitter must be installed to the provided separation distance of at least 20cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.
The module shall be only used with the integral antenna(s) that has been originally tested and certified with this module.
As long as 3 conditions above are met, further transmitter test will not be required. However, the OEM integrator is still responsible for testing their end-product for any additional compliance requirement with this module installed (for example, digital device emission, PC peripheral requirements, etc.)

In the event that these conditions cannot be met (for example certain laptop configuration or colocation
with another transmitter), then the FCC authorization for this module in combination with the host equipment is no longer considered valid and the FCC ID of the module cannot be used on the final product. In these and circumstance, the OEM integrator will be responsible for re-evaluating. The end product (including the transmitter) and obtaining a separate FCC
authorization. The final end product must be labeled in a visible area with the following: “Contains Transmitter Module FCC ID: 2BAFJ-BT820” or “Contains FCC ID: 2BAFJ-BT820”

END OF THIS DOCUMENTATION