GIANT Technology, Inc

Power Pro Model:

GT19BTnRF52x

Installation Manual

1. Overall Introduction

The wireless module was designed based on Nordic Semiconductor solution. The module include chip antenna, frequency on the 2.4GHz band. This module is have RF high output power、support BLE and ANT+ function into your finial system. Please see below of the feature:

- Based on the Nordic nRF52832-QFAA SoC
- Multiple protocol of BLE & ANT+ upon customer preference
- Low power requirements, Ultra-low peak, Average and idle mode power Consumption
- Compatible with a large installed based of mobiles phones, tablets and computers
- Fully coverage of wireless applications
- BLE & RF transmission switching may help products to fit all operation system
- BLE & RF transmission switching may help products to fit all kinds of hardware

2. Specification

- 2.4 GHz transceiver,
- RF Chip nRF52832-QFAA
- -96 dBm sensitivity in Bluetooth® low energy mode
- Supported data rates: 1 Mbps Bluetooth® low energy mode
- -20 to +4 dBm TX power
- On-chip balun (single-ended RF)
- ARM® Cortex®-M4 32-bit processor with FPU, 64 MHz
- 5V supply voltage range, 3.7V battery port
- Operation Temperature range, -20 degree C to 80 degree C
- Fully automatic LDO and DC/DC regulator system
- Memory
- 512 kB flash/64 kB RAM
- •embed chip antenna
- •package, 3.0 × 3.2 mm

3. Installation :

1. Connecting the sensor data to standard interface of this modular.
2. Connect input voltage pin.
3. built in the modular to the end system.
4. Link the BLE modular by the APP.

4. Statement for Finial Product

Federal Communications Commission (FCC) Statement

The final end product must be labeled in a visible area with the following: “Contains FCC ID: ZL7-GT20PWRPRO”， Contains IC: 9707A-GT20PWRPRO， 本產品內含射頻模組 ID:CCAL19LP0780T6

This module has been granted modular approval for mobile applications. OEM integrators for host products may use the module in their final products without additional FCC / IC (Industry Canada) certification if they meet the following conditions. Otherwise, additional FCC / IC approvals must be obtained.

- The host product with the module installed must be evaluated for simultaneous transmission requirements.
- The users manual for the host product must clearly indicate the operating requirements and conditions that must be observed to ensure compliance with current FCC / IC RF exposure guidelines.
- Antenna used should be limited to same type with equal or lesser antenna gain

You are cautioned that changes or modifications not expressly approved by the part responsible for compliance could void the user’s authority to operate the equipment.

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.

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 of the device.

RF Radiation Exposure Statement:

This Transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body.

Canada, Industry Canada (IC) Notices
“This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this devicemust accept any interference, including interference that may cause undesired operation of the device."

Canada, avis d'Industry Canada (IC)
“Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement."

NCC 警語:

根據 NCC 低功率電波輻射性電機管理辦法 規定:
第十二條　經型式認證合格之低功率射頻電機，非經許可，公司、商號或使用者均不得擅自變更頻率、加大功率或變更原設計之特性及功能。
第十四條　低功率射頻電機之使用不得影響飛航安全及干擾合法通信；經發現有干擾現象

時，應立即停用，並改善至無干擾時方得繼續使用。
前項合法通信，指依電信法規定作業之無線電通信。
低功率射頻電機須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾。

Installation Note:

This equipment complies with RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body.