

BLE003 module Hardware Manual

FCC ID: 2AMDBBLE003

IC: 22882-BLE003

Overview and Key Features

The BLE003 module has been designed to allow OEMs to easily add Bluetooth wireless connectivity in their product offering. The BLE003 module incorporates GEMHCI protocol software specifically designed to enable fitness machines such as treadmills, exercise bikes, ellipticals, rowers, stair climbers and step machines to wirelessly communicate exercise data with smart phones, tablets, and leaderboard software systems.

The BLE003 module is based on Nordic Semiconductor's nRF52832 multiprotocol Bluetooth chipset. The BLE003 maximum transmits power of +4dBm. This manual is intended to assist hardware integration of the BLE003 module into a given design.

Features

- 1-1. Product Name: Bluetooth Module
- 1-2. Bluetooth module: BLE003
- 1-3. Bluetooth specification: Bluetooth 4.2, Class2
- 1-4. MCU: Nordic nRF51822 SoC solution
- 1-5. Operation voltage: DC 1.7~3.3V
- 1-6. Communication type: GPIO, UART, SPI, I2C, PWM, ADC

FCC Warning:

"THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES AND INDUSTRY CANADA LICENSE-EXEMPT RSS STANDARD(S). 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.

NOTE: THE GRANTEE IS NOT RESPONSIBLE FOR ANY CHANGES OR MODIFICATIONS NOT EXPRESSLY APPROVED BY THE PARTY RESPONSIBLE FOR COMPLIANCE. SUCH MODIFICATIONS COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.

- (1) the module is limited to OEM installation ONLY
- (2) the OEM integrator is responsible for ensuring that the end-user has no manual instructions to remove or install module.
- (3) the module is limited to installation in mobile or fixed application.
- (4) the separate approval is required for all other operating configuration, including portable configurations with respect to Part 2.1093 and different antenna configurations.
- (5) Labeling instruction of finished product. Please refer to KDB 784748 D01

Industry Canada (IC) Warning:

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

Le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique 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.