



Smk BT801 Dual Mode Bluetooth Module User Manual

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User Manual

Bluetooth® module with a built-in 2.4GHz band antenna

Model Name: Dual-mode Bluetooth Module Model number: BT801

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GENERAL

BT801 is a Bluetooth communication module complying with Bluetooth Version 5.0. It works with both Bluetooth Classic and Low Energy. It operates in the two modes, Command Mode and Automatic Mode, and makes the automatic connections in Automatic Mode. It supports master and slave operations. It becomes an adapter that transfers various data wirelessly between master and slave devices. Therefore, wireless data communication can be realized by only replacing the cable between apparatuses with BT801, without changing a host system.

Features

1. Surface mounting module with a built-in antenna.
2. Unique automatic connection methods and command connection modes can be selected as control methods.

3. Support various profiles and protocols at user's requests.

Integration to the end product

The SMK Transceiver Module, model BT801 has to be installed and used in accordance with the technical description/installation instructions provided by the manufacturer.

The system may only be implemented in the configuration that was authorized. Note that any changes or modifications to this equipment not expressly approved by the manufacturer could void the user's authority to operate this equipment.

Specification

1. Bluetooth® Specifications Ver.5.0-compliant (Bluetooth Classic + Bluetooth Low Energy)
2. Frequency Range: 2402-2480 MHz
3. Modulation System: GFSK, /4DQPSK, 8-DPSK
4. Max. Data rate: 3Mbps
5. Antenna: PCB printed antenna

Regulatory Information

USA-Federal Communications Commission (FCC)

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of 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. If not installed and used in accordance with the instructions, it 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 and correct the interference by one or more of the following measures: -Reorient or relocate the receiving antenna. -Increase the distance between the equipment and the receiver. -Connect the equipment to 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.
- Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Labeling

SMK Transceiver module BT801 is labeled as below.

FCC ID: GT3RD001

The proposed FCC IC label format is to be placed on the module. If it is not visible when the module is installed into the system, "Contains FCC ID: GT3RD001, Contains IC: 3683A-RD001" shall be placed on the outside of the final host system.

Caution: Exposure to Radio Frequency Radiation.

1. When used in mobile devices This equipment complies with FCC radiation exposure limits set forth for an

uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines. This equipment has very low levels of RF energy that is deemed to comply without maximum permissive exposure evaluation (MPE).

2. When used in portable devices This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines. This equipment has very low levels of RF energy that is deemed to comply without testing of specific absorption rate (SAR).

Canada-Industry Canada (IC)

This device complies with Industry Canada's applicable license-exempt RSS. 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 this device.

To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (EIRP) is not more than that required for successful communication.

Caution: Exposure to Radio Frequency Radiation.

1. When used in mobile devices This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment and meets RSS-102 of the IC radio frequency (RF) Exposure rules. This equipment has very low levels of RF energy that is deemed to comply without maximum permissive exposure evaluation (MPE).
2. When used in portable devices This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment and meets RSS-102 of the IC radio frequency (RF) Exposure rules. The module antenna must be installed to meet the RF exposure compliance separation distance of "10 mm" and any additional testing and authorization process as required."

Instructions to OEM Integrators

A User manual provided to the end-user must indicate the operating requirements and conditions that must be observed to ensure compliance with the above-mentioned FCC /IC RF Exposure guideline.

If an antenna with a higher gain or a new antenna type is used with this module, integrators must contact SMK for additional testing and submission to the FCC/IC.

If other radio devices are to be integrated with this module, an additional evaluation and FCC/IC submission may be required. Integrators are responsible for such additional evaluation and FCC/IC submission.

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Documents / Resources

