Fujitsu Component Wireless Modules

Bluetooth® Smart Module (Blank Version)
MBH7BLZ07-109033

Overview
Ultra small, low power consumption Bluetooth Smart peripheral "blank" module.

Feature
- "Blank" module: user can develop own unique application codes
- Based on Nordic Semiconductor nRF51822 SoC Rev. 3
- All 22 GPIO pins are allocated to the module
- Separation of protocol stack and application code
- Assurance that the protocol stack is fully tested and can’t be corrupted by application software development
- Implement your unique profiles and application code
- Custom software development service available
- Antenna pattern design and simulation available

Evaluation kit
Part number Details
MBH7BLZ07-EB-KIT Evaluation kit
Contains:
- MBH-FUJI-E Evaluation board
- MBH7BLZ07-DAU-EB1 Module mounted on daughter board
- USB cable

Item Specifications
Part number MBH7BLZ07-109033
Antenna Pattern antenna
Bluetooth technology Conforms to Bluetooth Core Specification Version 4.1 (single mode low energy radio)
RAM 16KB
Transmit power +4 dBM max. (switchable by API)
Receiver sensitivity -88 dBM typical
Interface UART, SPI, I2C, GPIO
Crystal oscillator Embedded
Operating temperature & power supply
- LDO mode
  -40°C to +85°C, 1.9 VDC to 3.6 VDC
  -25°C to +75°C, 1.8 VDC to 3.6 VDC
- Low voltage mode
  -25°C to +75°C, 1.75 VDC to 1.95 VDC
Power consumption
- Tx mode 10.5mA typical (at 0dBm)
- Rx mode 13mA typical
Number of GPIO 22
Dimensions 11.5 x 7.9 x 1.7 mm
Mounting method Surface mount (SMD)
Certifications Bluetooth qualification (QDID) / Radio Act (Japan) / FCC / IC / CE

Note: Bluetooth SIG registration is required to use this module’s QDID.
Dimensions

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Unit: mm