

FUJITSU Component Wireless Modules

Bluetooth® Ver. 4.1 Module (Blank Version)

(Central/Peripheral)

MBH7BLZ01A-109008, MBH7BLZ02A-109009

Bluetooth Core Specification Version 4.1 (Bluetooth low energy) conforming peripheral "blank" modules.

Overview

Bluetooth Core Specification Version 4.1 (Bluetooth low energy) conforming peripheral "blank" modules (separation of protocol stack and application code), with Central/Peripheral function available.



RoHS compliant

"Blank" module

Features

- "Blank" module: user can develop own unique application codes
- Based on Nordic Semiconductor nRF51822 SoC Rev. 3
- All 31 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



MBH7BLZ02A-109009



MBH7BLZ01A-109008

| Item | Specifications | |
|-----------------------------|---|--|
| Part number | MBH7BLZ01A-109008 | MBH7BLZ02A-109009 |
| Antenna | None | Patterned antenna |
| Bluetooth technology | Conforms to Bluetooth Core Specification Version 4.1 (single mode low energy radio) | |
| RAM | 32KB | |
| Transmit power | +4 dBm max. | |
| Receiver sensitivity | -88 dBm typical | |
| Interface | UART, SPI, I ² C, GPIO | |
| Crystal oscillator | Embedded | |
| Power supply | 1.9 V to 3.6 V corresponds to LDO mode | |
| Power consumption (current) | Tx mode | 10.5mA typical (+0dBm) |
| | Rx mode | 13mA typical |
| Operating temperature | -25°C to +85°C (no condensation) | |
| Dimensions | 10.5 x 9.2 x 1.6 mm | 15.7 x 9.8 x 2.0 mm |
| Mounting method | SMD | |
| Certifications | Radio Act (Japan) / QDID | FCC / IC / CE / Radio Act (Japan) / QDID |

Note: Bluetooth SIG registration is required to use this module's QDID.
Available free RAM space: 20KB

Evaluation kit

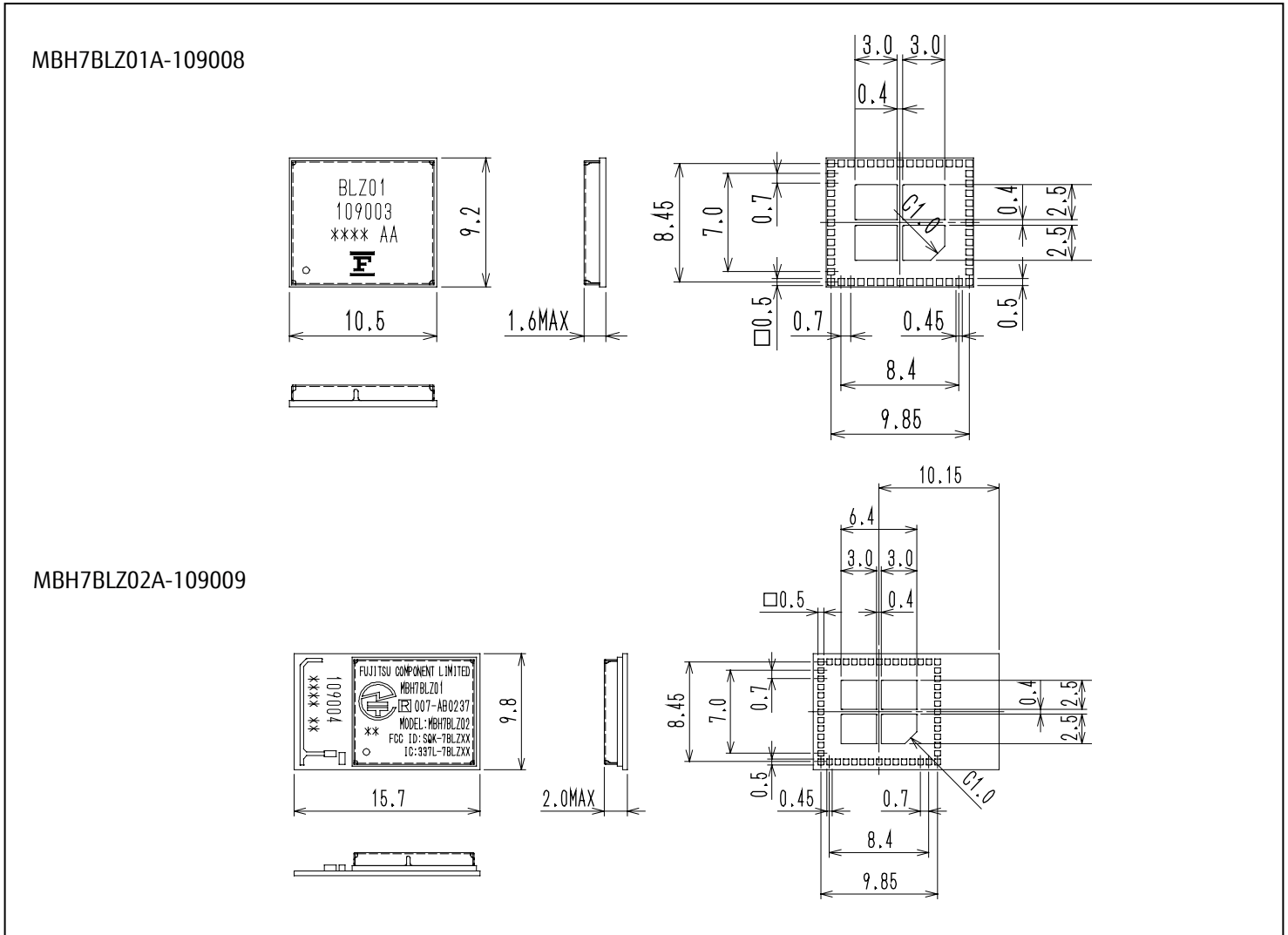
| Part number | Details | MOQ |
|----------------------|----------------|-------|
| MBH7BLZ02A-EB1-KIT-2 | Evaluation kit | 1 set |

Upper layer protocol & application development tool

Please download* the following software from Nordic Semiconductor: www.nordicsemi.com

- Software Development Kit ('SDK')

■ Dimensions



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