

To be Discontinued

# FUJITSU Component Wireless Modules

## Bluetooth® Module (conforms to Bluetooth low energy)

### MBH7BLZ01-109003, MBH7BLZ02-109004

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).

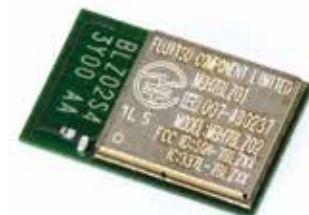


RoHS compliant

“Blank” module

#### Features

- “Blank” module: user can develop own unique application codes
- Based on Nordic Semiconductor nRF51822 SoC Rev. 2
- 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



MBH7BLZ02-109004



MBH7BLZ01-109003

Item	Specifications	
Part number	MBH7BLZ01-109003	MBH7BLZ02-109004
Antenna	None	Embedded (patterned antenna)
Bluetooth technology	Conforms to Bluetooth Core Specification Version 4.1 (single mode low energy radio)	
Transmit power	+4 dBm max.	
Receiver sensitivity	-88 dBm typical	
Interface	UART, SPI, I <sup>2</sup> 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 +75°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.

#### Evaluation kit

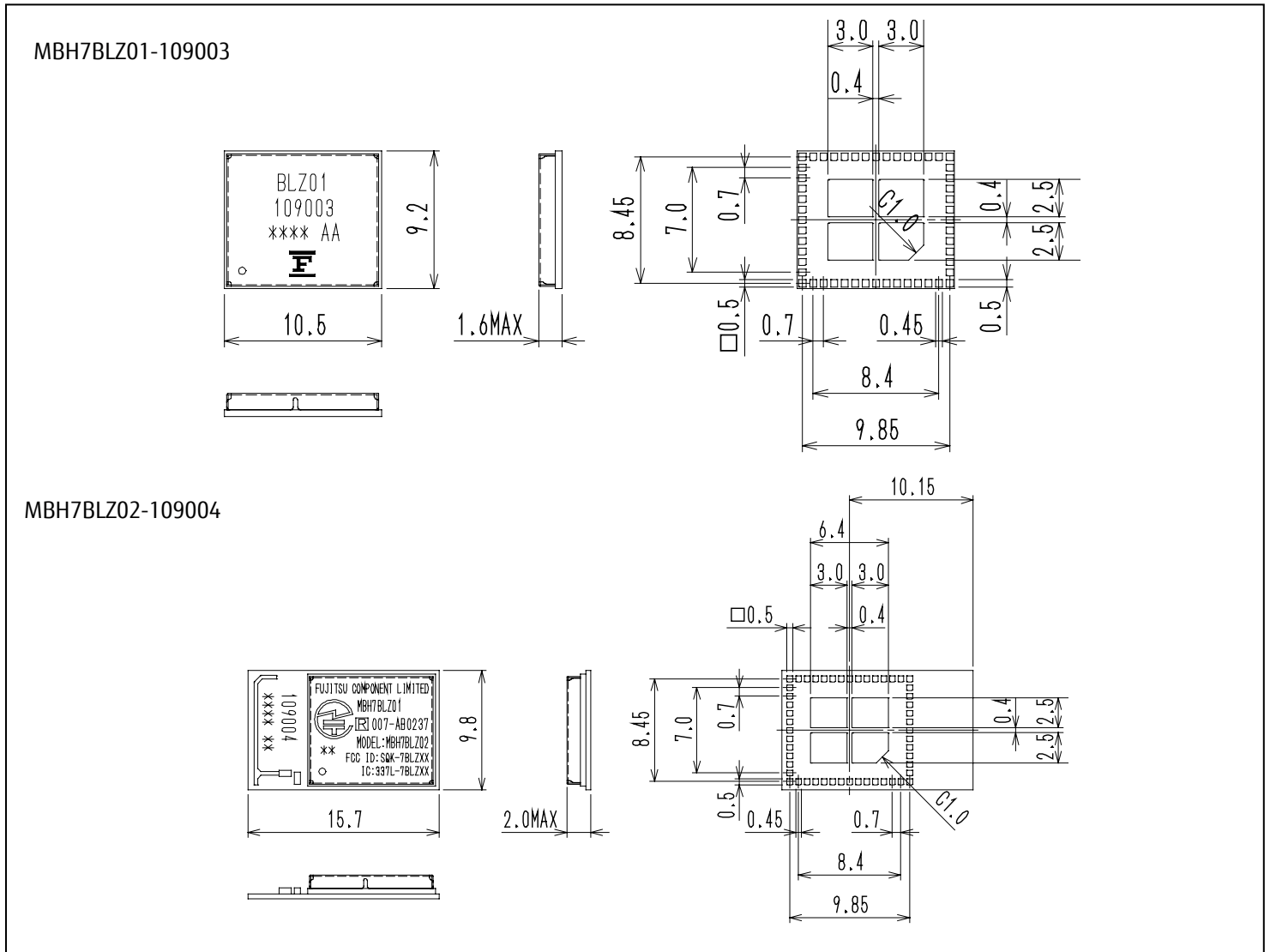
Part number	Details	MOQ
MBH7BLZ02-EB-KIT	Evaluation kit	1 set

#### Upper layer protocol & application development tool

Please download\* the following software from Nordic Semiconductor: [www.nordicsemi.com](http://www.nordicsemi.com)

- Software Development Kit ('SDK')

■ Dimensions



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