

FUJITSU Component Wireless Modules

Bluetooth® Smart Module (Blank Version)

MBH7BLZ01-109029, MBH7BLZ02-109031

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

Overview

Bluetooth Core Specification Version 4.1 (Bluetooth Smart) conforming peripheral "blank" modules (separation of protocol stack and application code).

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

Item		Specifications
Part number	MBH7BLZ01-109029	MBH7BLZ02-109031
Antenna	None	Patterned antenna
Bluetooth technology	Conforms to Bluetooth Core Specification Version 4.1 (single mode low energy radio)	
RAM	16KB	
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	-40°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.

Bluetooth Smart Module

RoHS compliant

"Blank" module



MBH7BLZ02-109031



MBH7BLZ01-109029

Evaluation kit

Part number	Details	MOQ
MBH7BLZ02-EB-KIT2	Evaluation kit	1 set

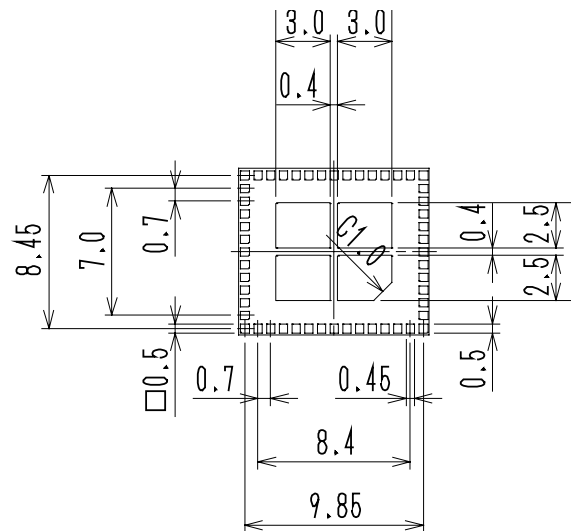
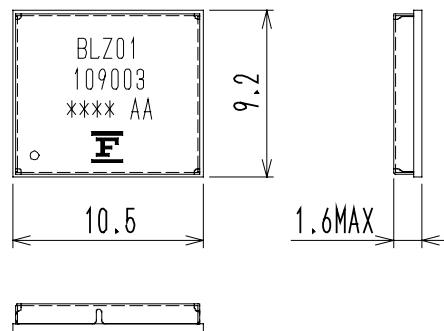
Upper layer protocol & application development tool

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

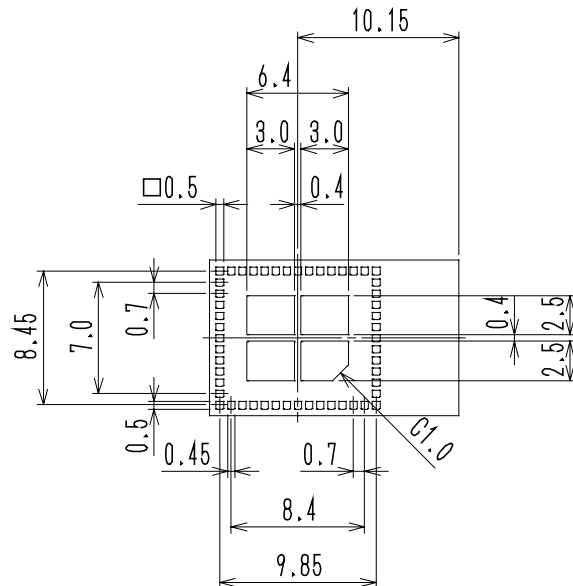
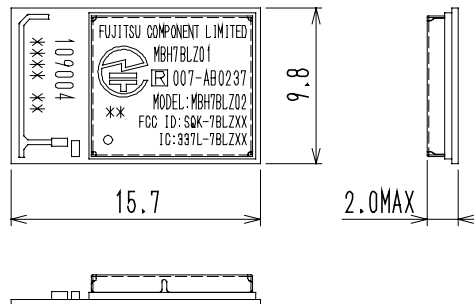
- Software Development Kit ('SDK')

- Dimensions

MBH7BLZ01-109029



MBH7BLZ02-109031



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Revised October 14, 2015.

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