

FUJITSU Component Wireless Modules

Bluetooth® Ver. 4.1 Module (Blank Version)

MBH7BLZ07-109033

Overview

Ultra small, low power consumption Bluetooth low energy peripheral “blank” module.



RoHS compliant

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



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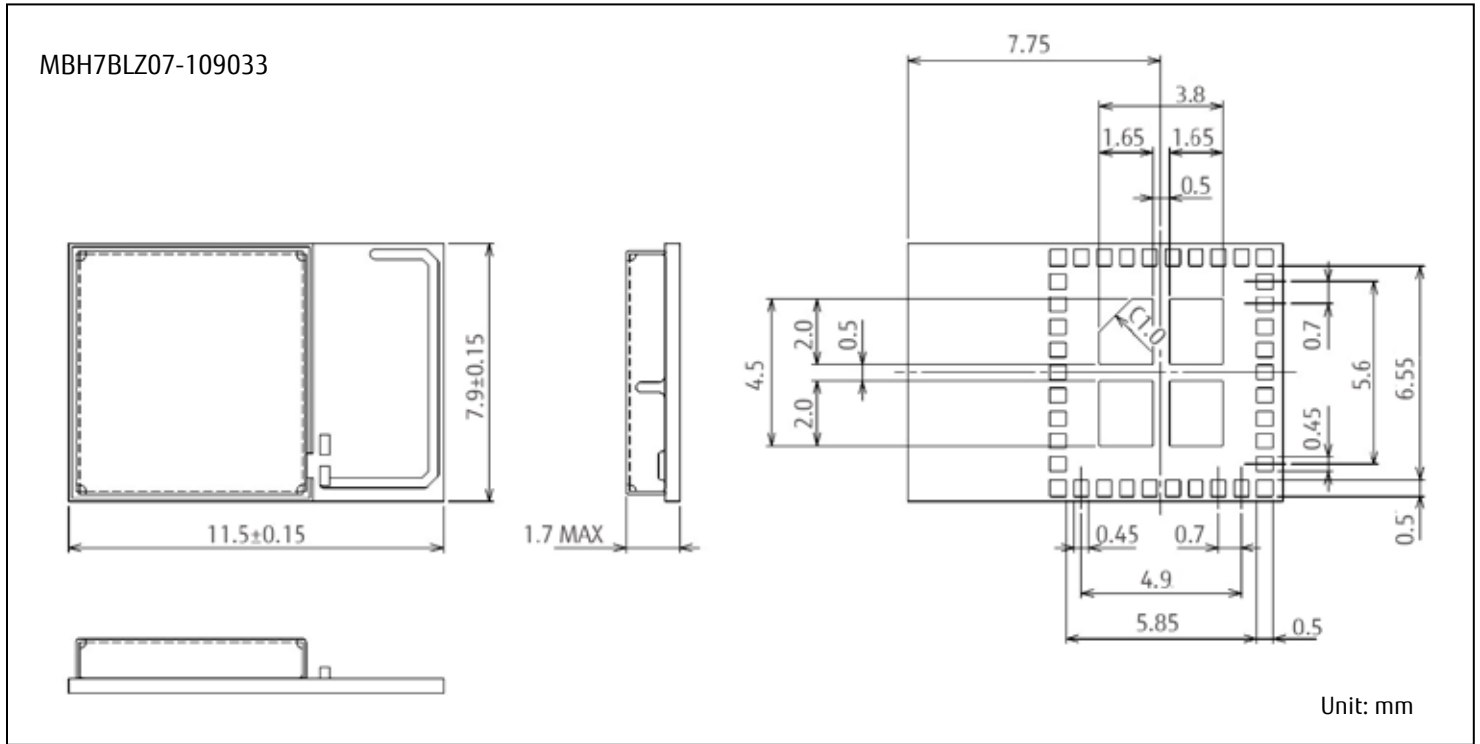
Item	Specifications	
Part number	MBH7BLZ07-109033	
Antenna	Pattern antenna	
Bluetooth technology	Conforms to Bluetooth Core Specification Version 4.1 (single mode low energy radio)	
RAM	16KB	
Transmit power	+4 dBm max. (switchable by API)	
Receiver sensitivity	-88 dBm typical	
Interface	UART, SPI, I2C, 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	

Evaluation kit

Part number	Details
MBH7BLZ07-EB1-KIT-2	Evaluation kit
Contains:	
- MBH-FUJ12-E1	Evaluation board
- MBH7BLZ07-DAU-EB1	Module mounted on daughter board
- USB cable	

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

■ Dimensions



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