

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 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 +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

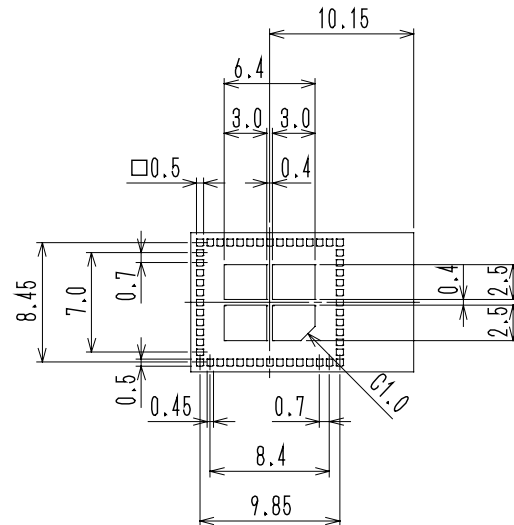
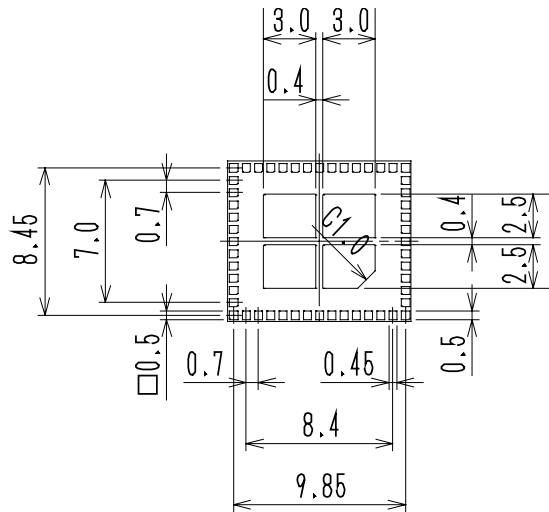
Part number	Details	MOQ
MBH7BLZ02-EB-KIT	Evaluation kit	1 set

Upper layer protocol & application development tool

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

- Software Development Kit ('SDK')

Technical drawing of a Fujitsu Component Limited label. The label is rectangular with a black border. Inside, the text reads: FUJITSU COMPONENT LIMITED, MBHTBLZ01, TEL 007-AB 0237, MODEL: MBHTBLZ02, FGC 1D: SAK-TBLZXX, 1C: 337L-TBLZXX. There is a circular logo on the left and a small circle with 'XX' on the right. The label is shown with dimensions: 15.7 (width), 8.6 (height), and 2.0MAX (thickness).



Contact

FUJITSU COMPONENT LIMITED
Shinagawa Seaside Park Tower
12-4, Higashi-shinagawa 4-chome,
Tokyo 140 0002, Japan
Tel: (81-3) 3450-1682
Fax: (81-3) 3474-2385
Email: fcl-contact@cs.jp.fujitsu.com
Web: www.fujitsu.com/jp/group/fcl/en/

FUJITSU COMPONENTS AMERICA, INC.
2290 North First Street, Suite 212
San Jose, CA 95131 U.S.A.
Tel: (1-408) 745-4900
Fax: (1-408) 745-4970
Email: components@us.fujitsu.com
Web: <http://us.fujitsu.com/components/>

FUJITSU COMPONENTS EUROPE B.V.
Diamantlaan 25
2132 WV Hoofddorp
Netherlands
Tel: (31-23) 5560910
Fax: (31-23) 5560950
Email: info@fceu.fujitsu.com
Web: emea.fujitsu.com/components/

FUJITSU COMPONENTS ASIA, Ltd.
102E Pasir Panjang Road
#01-01 Citilink Warehouse Complex,
Singapore 118529
Tel: (65) 6375-8560 / Fax: (65) 6273-3021
Email: fcsl@fcsl.fujitsu.com
[www.fujitsu.com/sg/products/devices/
components/](http://www.fujitsu.com/sg/products/devices/components/)

FUJITSU ELECTRONIC COMPONENTS
(SHANGHAI) CO., LTD.
Unit 4306, InterContinental Center
100 Yu Tong Road, Shanghai 200070, China
Tel: (86 21) 3253 0998 /Fax: (86 21) 3253 0997
Email: fcal@fcal.fujitsu.com
[www.fujitsu.com/sg/products/devices/
components/](http://www.fujitsu.com/sg/products/devices/components/)

FUJITSU COMPONENTS HONG KONG Co., Ltd.
Room 06, 28/F, Greenfield Tower, Concordia Plaza,
No.1 Science Museum Road,
Tsim Sha Tsui East, Kowloon, Hong Kong
Tel: (852) 2881 8495 Fax: (852) 2894 9512
Email: fcal@fcal.fujitsu.com
[www.fujitsu.com/sg/products/devices/
components/](http://www.fujitsu.com/sg/products/devices/components/)

FUJITSU COMPONENTS KOREA, LTD.
Alpha Tower #403,
645 Sampyeong-dong,
Bundang-gu, Seongnam-si,
Gyeonggi-do, 13524 Korea
Tel: (82 31) 708-7108
Fax: (82 31) 709-7108
Email: fcal@fcal.fujitsu.com
www.fujitsu.com/sq/products/
devices/components/

Page 2 of 2
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