

FUJITSU Component Wireless Modules

Bluetooth® Ver. 4.1 Module (Software Embedded)

MBH7BLZ07

Overview

Ultra small, low power consumption Bluetooth low energy module with embedded software.

Modules embedded with Fujitsu Components' Data Communication (FDC) profile

FDC is a unique data transmission profile developed by Fujitsu Components. FDC allows data to transmit with host system by simple text command (via UART). With more than 60 commands and continuous additions, FDC allows for quick product to market and reduction of development resources.

FDC is a SPP-like profile ideally suited for sensing, monitoring, and wearable applications.

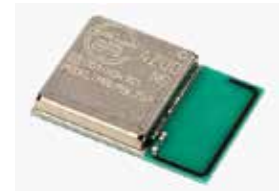
Based on Nordic Semiconductor nRF51822 SoC Rev.3

Item	Specifications	
Part number	MBH7BLZ07	
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 command)	
Receiver sensitivity	-88 dBm typical	
Interface	UART	
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	Sleep mode	5µ A typical
	Tx mode	12mA typical (at 0dBm)
	Rx mode	16.5mA typical
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	

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



RoHS compliant

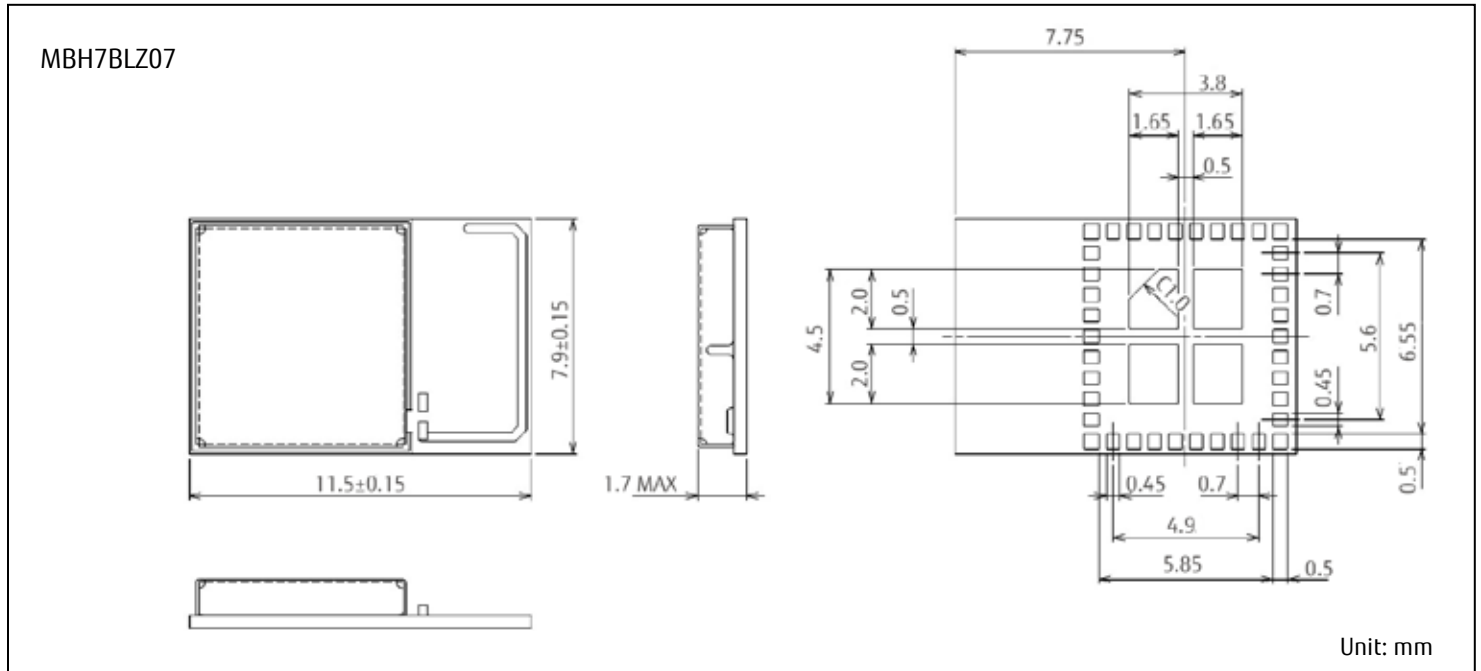


MBH7BLZ07

Evaluation kit

Part number	Details
MBH7BLZ07-EF1-KIT-2	Evaluation kit
Contains:	
- MBH-FUJ12-E1	Evaluation board
- MBH7BLZ07-DAU-EF1	Module mounted on daughter board
- USB cable	

■ Dimensions



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