

FUJITSU Component Wireless Modules

Bluetooth® Ver.4.1 Modules (Software Embedded)

MBH7BLZ01, MBH7BLZ02

Bluetooth Core Specification Version 4.1 (Bluetooth low energy)

Overview

Bluetooth Core Specification Version 4.1 (Bluetooth low energy) conforming peripheral modules 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

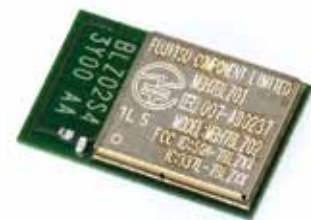
Item		Specifications
Part number	MBH7BLZ01	MBH7BLZ02
Antenna	None	Patterned antenna
Bluetooth technology	Conforms to Bluetooth Core Specification Version 4.1 (single mode low energy radio)	
RAM	16KB	
Transmit power	+4 dBm max.	
Receiver sensitivity	-88 dBm typical	
Host interface	UART	
Crystal oscillator	Embedded	
Power supply	1.9 V to 3.6 V (LDO)	
Power consumption (current)	Sleep mode	5µA typical
	Tx mode	12mA typical (at 0dBm)
	Rx mode	16.5mA 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.



RoHS compliant

Software embedded module



MBH7BLZ02



MBH7BLZ01

Evaluation tools

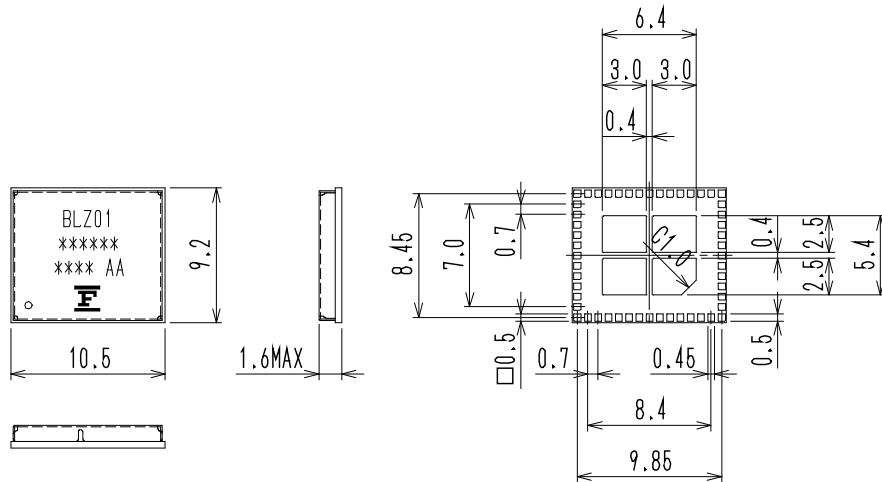
Part number	Details	MOQ
MBH7BLZ02-EF-KIT-2	Evaluation kit	1 set

Embedded software & application development tool

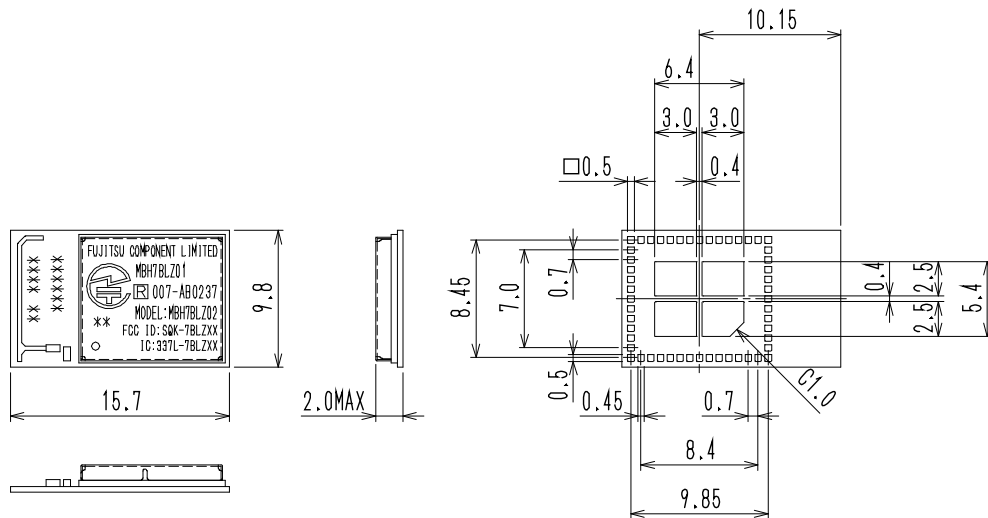
Please request firmware specs and sample programs from one of Fujitsu Components' sales offices.

■ Dimensions

MBH7BLZ01



MBH7BLZ02



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