FUJITSU

Bluetooth Smart Module

Software embedded module

RoHS compliant

FUJITSU Component Wireless Modules Bluetooth® Smart Modules (Software Embedded) MBH7BLZ01, MBH7BLZ02

Bluetooth Core Specification Version 4.1 (Bluetooth Smart)

Overview

Item

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Bluetooth Core Specification Version 4.1 (*Bluetooth* Smart) 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.

Specifications

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

Based on Nordic Semiconductor nRF51822 SoC Rev.3



MBH7BLZ01

Evaluation tools				
Part number	Details	MOQ		
MBH7BLZ02-EF-KIT2	Evaluation kit	1 set		

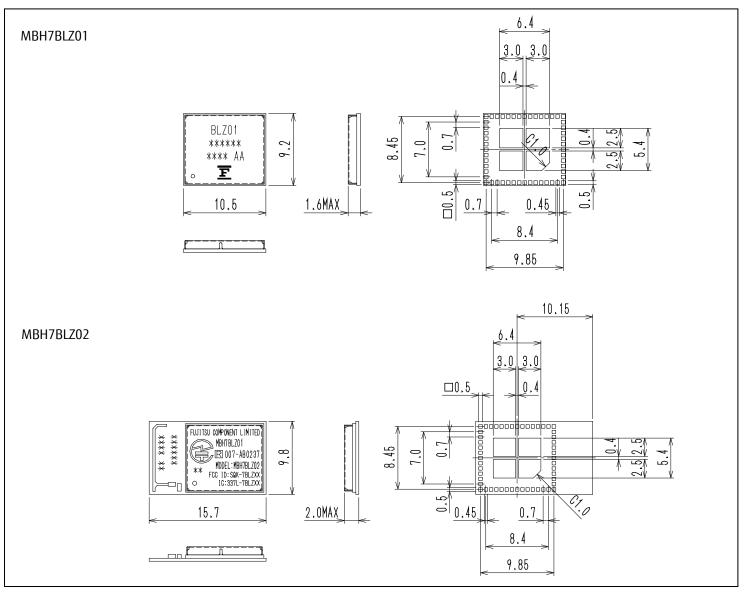
Embedded software & application development tool

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

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: <i>Bluetooth</i> SIG registration is required to use this module's QDID.				

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Dimensions



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