

FCL Components Wireless Modules

Bluetooth® Ver. 4.1 Module (Software Embedded)

MBH7BLZ07

Overview

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



RoHS compliant

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

FDC is a unique data transmission profile developed by FCL 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.



MBH7BLZ07

Based on Nordic Semiconductor nRF51822 SoC Rev.3

Item		Specifications
Part number		MBH7BLZ07
Antenna		Pattern antenna
Bluetooth technology		Conforms to <i>Bluetooth</i> 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.

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	

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