FUJITSU Component Wireless Modules

Bluetooth® Ver. 4.1 Module (Blank Version)
MBH7BLZ07-109033

Overview
Ultra small, low power consumption Bluetooth low energy peripheral “blank” module.

Feature
- “Blank” module: user can develop own unique application codes
- Based on Nordic Semiconductor nRF51822 SoC Rev. 3
- All 22 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
- Custom software development service available
- Antenna pattern design and simulation available

Item | Specifications
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Part number | MBH7BLZ07-109033
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 API)
Receiver sensitivity | -88 dBm typical
Interface | UART, SPI, I2C, GPIO
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 | Tx mode
10.5mA typical (at 0dBm)
Rx mode | 13mA typical
Number of GPIO | 22
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
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MBH7BLZ07-EB1-KIT-2 | Evaluation kit
Contains:
- MBH-FUJI2-E1 Evaluation board
- MBH7BLZ07-DAU-EB1 Module mounted on daughter board
- USB cable

ASIA PACIFIC: www.fujitsu.com/sg/products/devices/components
EMEA: www.fujitsu.com/uk/components
AMERICAS: http://us.fujitsu.com/components
Dimensions

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