

BM70BLES1FC2-0B04AA

Data Sheet

Bluetooth 4.2, 1.9V to 3.6V Supply, BM70 Series Range, -90dBm Sensitivity

Manufacturers	Microchip Technology, Inc	della St
Package/Case	33-SMD SMD	
Product Type	RF Integrated Circuits	ntegrated Circuits
RoHS		
Lifecycle		Images are for reference only

Please submit RFQ for BM70BLES1FC2-0B04AA or Email to us: sales@ovaga.com We will contact you in 12 hours.

<u>RFQ</u>

General Description

The BM70 Bluetooth Low Energy module is designed for easy implementation into a broad range of applications. It delivers up to 2.5x throughput improvement and more secure connections vs. Bluetooth 4.1 based products. Developers can easily interface to the device via a standard UART interface, available on most Microcontrollers and Processors. The BM70 has a completely integrated Bluetooth software stack, and offers a shielded regulatory certified version with built-in antenna. Developers are freed from the complexities of Bluetooth Software and RF development and can simply utilize the BM70 as a wireline replacement. Perfect for IoT (Internet of Things) applications, when interfaced to a BLE enabled smartphone or Bluetooth Internet Gateway, applications can be monitored, controlled and updated from anywhere in the world.

The Microchip Bluetooth Data (MBD) mobile app is available tospeed up development for both Android and iOS.

Microchip's complimentary and confidential Wireless Check online design review service is available for customers who have selected our products for their application design-in*.*The online design review service is subject to Microchip's Program Terms and Conditions and requires a myMicrochip account.

Firmware Release Summary, see Software Release Notesfor details:

BM70BLEx1FC2-0B04AA - FW 1.11 - Fixes bug with invalid Bluetooth address. Refer to Errata document for more information.

BM70BLEx1FC2-0B03AA - FW 1.06 - Added support for the BM71 among other bug fixes.

BM70BLEx1FC2-0002AA - FW 1.03 - Initial Release.

Features

Bluetooth 5 Certified Module certified for use in USA, Canada, Europe, Japan, Korea, Taiwan and China Mobile Application supported in Microchip Bluetooth Data (MBD) Latest Firmware Revision: 1.11 (BM70BLEx1FC2-0B04AA) Supports LE Secure Connections levels 1-3 UART interface 3 x PWM supported Main Crystal: 32MHz Temperature sensor supported 12 bits ADC supported for 8CH input ports and battery voltage detection Wake up by any GPIO Average current: TX 3.87mA/RX 3.06mA with Buck,@> **RSSI** Monitor ISM Band 2.402 to 2.480 GHz operation Channels 0-39 Rx Sensitivity: -90 dBm@ BLE, in typical Tx Power: +2 dBm RSSI monitor Ceramic Chip Antenna (BM70BLES1FC2) External Antenna Connection (BM70BLE01FC2)

Related Products



BM-78-PICTAIL

Microchip Technology, Inc N/A



BM71BLE01FC2-0002AA Microchip Technology, Inc SMD



BM77SPPS3MC2-0007AA

Microchip Technology, Inc SMD

BM71BLES1FC2-0B02AA

Microchip Technology, Inc SMD

Ovaga Technologies Limited





Microchip Technology, Inc 16-SMD SMD



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