

Certified BT Dual Mode Module with ASCII Interface used with Apple MFI

Manufacturers	Microchip Technology, Inc
Package/Case	SMD
Product Type	RF Integrated Circuits
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for RN4678APL-V/RM100 or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The RN4678 is a fully certified Bluetooth Dual Mode (BR/EDR/LE) module, which enables the designer to easily add classic Bluetooth and Bluetooth Smart capability to their products. Delivering local connectivity for the Internet of Things (IoT), the RN4678 bridges the product to Smart Phones and Tablets for convenient data transfer, control and access to cloud applications. This Bluetooth SIG certified module provides a complete wireless solution with Bluetooth stack on-board, integrated antenna, and worldwide radio certifications in a compact surface mount package, 22 x 12 x 2.4 mm. It supports GAP, SDP, SPP, and GATT profiles. Data is transferred over the Bluetooth link by sending/receiving data via transparent UART mode, making it easy to integrate with any processor or microcontroller with a UART interface. Configuration is made easy through ASCII commands via UART. The Microchip Bluetooth Data (MBD) mobile app is available to speed 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 LANCheck online design review service is subject to Microchip's Program Terms and Conditions and requires a myMicrochip account.

Firmware Release Summary, see Software Release Notes for details:

RN4678-V/RM113 - Added support for 1Mbps baud rate, added command to suppress "Rebooting" and "Trying" status messages. Fixed bonding issue with Paired Device List, and other minor bug fixes.

RN4678-V/RM111 - Bluetooth name restored to default on factory reset. Other minor bug fixes.

RN4678-V/RM100 - Initial Release.

Features

Bluetooth 5 Certified

Bluetooth Classic and Bluetooth Low-Energy Support

Easy to use ASCII command interface for communication with the host microcontroller

Module certified for use in USA, Canada, Europe, Japan, Korea, Taiwan, India and China

Mobile App support in Microchip Bluetooth Data (MBD) for iOS and Android

Additional part numbers available for Apple MFi accessories

On-board embedded Bluetooth Stack (GAP, SDP, SPP, GATT)

Easy to use transparent mode for data transfer via UART

Multiple I/O pins for control and status

Secure AES128 encryption and LE Secure Connections

Receiver Sensitivity -90 dBm (Classic); -92 dBm (LE)

Firmware can be field upgradable via UART

Compact surface mount module: 22 x 12 x 2.4 mm

Related Products



[RN52SRC-I/RM100](#)

Microchip Technology, Inc
SMD



[RN4871-V/RM130](#)

Microchip Technology, Inc
SMD



[RN4871-I/RM128](#)

Microchip Technology, Inc
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[RN4871-V/RM118](#)

Microchip Technology, Inc
16-SMD SMD



[RN4871-V/RM140](#)

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[RN4871-I/RM140](#)

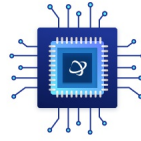
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[RN-4870-SNSR](#)

Microchip Technology, Inc

N/A