## Bluetooth Class II 3Mbps 35-Pin SMD Tray

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|---|---|
| **Manufacturer:** | Microchip Technology, Inc |
| **Package/Case:** | 35-SMD |
| **Product Type:** | RF Integrated Circuits |
| **RoHS:** | RoHS Compliant/Lead free |
| **Lifecycle:** | LTB |
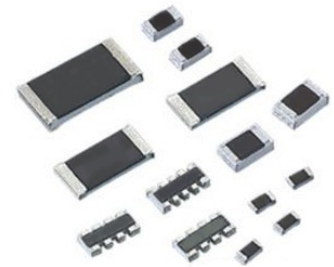
Images are for reference only

Inquiry

## General Description

The RN42 is a small form factor, low power, Class 2 Bluetooth radio for designers who want to add wireless capability to their products.The RN42 supports multiple interface protocols, is simple to design in, and is fully certified, making it a complete embedded Bluetooth solution.The RN42 is functionally compatible with the RN41.With its high-performance PCB trace antenna and support for Bluetooth EDR, the RN42 delivers up to 3 Mbps data rate for distances up to 20 meters.The RN42 is available without antenna (RN42N).This is useful when the application requires an external antenna.The RN42N is form, function, and pin compatible with the RN42.Note: The Bluetooth SIG has deprecated Bluetooth 2.1 specification as of January 28, 2019. New designs with the RN42 will be unaffected. New designs with the RN42N will be affected. The Bluetooth SIG has also set the withdrawal date as July 1, 2020. Once the specification has been withdrawn, Bluetooth SIG will not qualify any new designs. *Existing designs are unaffected* Check out the Bluetooth SIG site for additional details HERE.Firmware version 6.30 is the latest production firmware version available for the standard RN42.  To receive the latest firmware version 6.30, please order part number RN42-I/RM630Firmware version 5.50 is the latest production firmware version available for the RN42APL.  To receive the latest firmware version 5.50, please order part number RN42APL-I/RM550
Please consider this deviceRN4678

**Key Features**

RF Module with PCB antenna (RN42-I/RM)

Fully certified Class 2 Bluetooth 2.1 + EDR module

Onboard embedded Bluetooth stack (no host processor required)

UART (SPP or HCI) and USB (HCI only) data connection hardware interfaces

Supports Bluetooth data link to iPhone/iPad/iPod Touch

Supports HID profile for making accessories such as keyboards, mouse, pointing devices

Programmable low power modes

Secure communications, 128 bit encryption

Error correction for guaranteed packet delivery

UART local and over-the-air RF configuration

Auto-discovery/pairing requires no software configuration (instant cable replacement)

Castellated SMT pads for easy and reliable PCB mounting

The standard part number (RN42-I/RM) supports SPP and DUN profiles

Bluetooth SIG qualified

## Recommended For You

| | | |
|---|---|---|
| **RN171-I/RM** | **RN42-I/RM630** | **RN42XVP-I/RM** |
| Microchip Technology, Inc | Microchip Technology, Inc | Microchip Technology, Inc |
| MODULE | MODULE-35 | MODULE-20 |
| | | |
| **RN4870-V/RM118** | **RN171XVU-I/RM** | **RN42N-I/RM** |
| Microchip Technology, Inc | Microchip Technology, Inc | Microchip Technology, Inc |
| MODULE-33 | MODULE-20 | MODULE |
| | | |
| **RN131C/RM** | **RN4020-V/RM120** | **RN2483A-I/RM105** |
| Microchip Technology, Inc | Microchip Technology, Inc | Microchip Technology, Inc |
| Module | MODULE | MODULE |
| | | |
| **RN4871U-V/RM118** | **RN1723-I/RM100** | **RN4870-I/RM130** |
| Microchip Technology, Inc | Microchip Technology, Inc | Microchip Technology, Inc |
| MODULE-17 | Module | MODULE |

**RN42HID-I/RM**

Microchip Technology, Inc

MODULE-35

**RN52-I/RM116**

Microchip Technology, Inc

Module

**RN42SM-I/RM**

Microchip Technology, Inc

MODULE-35