

RN42N

 Status: **In Production** [Buy it Now](#)

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The RN-42-N is form, function, and pin compatible with the RN-42. The primary difference between the RN-42-N and the RN-42 is that it does not have an onboard antenna. This is useful when the application requires an external antenna. The RN-42-N is shorter in length and has RF pads to route the antenna signal. The RN-42-N is perfect for short range, battery powered applications. It uses only 26 uA in sleep mode while still being discoverable and connectable. Multiple user-configurable power modes allow the user to dial in the lowest power profile for a given application. The RN-42-N is the perfect product for engineers adding Bluetooth capability to their product without spending significant time and money developing Bluetooth specific hardware and software.



Parameter Name	Value
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Features

- Fully qualified Class 2 Bluetooth 2.1 + EDR module
- Bluetooth SIG qualified
- UART (SPP or HCI) and USB (HCI only) data connection hardware interfaces
- Onboard embedded Bluetooth stack (no host processor required)
- Supports Bluetooth data link to iPhone/iPad/iPod Touch
- Supports HID profile for making accessories such as keyboards, mouse, pointing dev
- 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

Bluetooth Versions: 2.1 + EDR, 2.0, 1.2, 1.1
 Data rate: With onboard stack: 300Kbps: HCI mode: 1.5Mbps sustained, 3 Mbps burst
 Frequency Band: 2.412 - 2.484 GHz
 Modulation Techniques: FHSS/GFSK modulation, 79 channels at 1MHz intervals
 Profiles: SPP, DUN, HID, iAP, HCI, RFCOM, L2CAP, SDP
 Supply voltage: 3.3V ± 10%
 Output power: +4dBm
 Power consumption: Standby/Idle 25 mA : Connected (normal mode) 30 mA: Connected
 Operating temperature range: -40C to +85C
 Interface: UART, USB, Bluetooth
 Antenna: None
 Size: 0.74" x 0.52" x 0.07" (19 x 13.4 x 2 mm)
 Weight: 0.040 oz
 Certifications: Same as RN-42 when using pre-certified designs

Documentation

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Pricing & Samples Information

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= Sample a part = Buy a part Click on any of the underlined column headers to sort by that column. All pricing shown in USD only.

Sample	Buy	Part Number	Leads	Package Type	Temp Range	Packing	<u>1-25</u>	<u>26-99</u>	<u>100+</u>	<u>1000-4999</u>	<u>5000+</u>
		RN42NAPL-I/RM	35	Module	-40C to +85C	TRAY	15.95	15.40	15.35	12.50 *	12.50 *
		RN42NHCI-I/RM	35	Module	-40C to +85C	BAG	15.95	15.40	15.35	12.50 *	12.50 *
		RN42NHID-I/RM	35	Module	-40C to +85C	BAG	15.95	15.40	15.35	12.50 *	12.50 *
		RN42N-I/RM	35	Module	-40C to +85C	TRAY	15.95	15.40	15.35	12.50 *	12.50 *
		RN42NU-I/RM	35	Module	-40C to +85C	BAG	15.95	15.40	15.35	12.50 *	12.50 *

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 ** Device not available to purchase online. Please contact a sales office for pricing information.

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RoHS Information

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To see a complete listing of RoHS data for this device, please click [here](#).

Microchip Technology Inc Full Part Number	Lead Count	Package Type	Package Width	Solder Composition	JEDEC Indicator	RoHS	China EUIP
RN42NU-I/RM	35	MODULE	19x13.4x2mm	Matte Sn	e4		
RN42NHCI-I/RM	35	MODULE	19x13.4x2mm	Matte Sn	e4		
RN42NHID-I/RM	35	MODULE	19x13.4x2mm	Matte Sn	e4		
RN42N-I/RM	35	MODULE	19x13.4x2mm	Matte Sn	e4		
RN42NAPL-I/RM	35	MODULE	19x13.4x2mm	Matte Sn	e4		

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