


RF Transceiver FSK/GFSK 3.3V 47-Pin Tray

Manufacturer:	Microchip Technology, Inc
Package/Case:	Module-47
Product Type:	Communication & Networking ICs
RoHS:	RoHS Compliant/Lead free 
Lifecycle:	Active



Images are for reference only

[Inquiry](#)

General Description

The RN2903 is a fully-certified 915 MHz module based on wireless LoRa® technology. The RN2903 utilizes a unique spread spectrum modulation within the Sub-GHz band to enable long range, low power, and high network capacity. The module's embedded LoRaWAN Class A and Class C protocol enables seamless connectivity to any LoRaWAN compliant network infrastructure, whether public or privately deployed. The module is specifically designed for ease of use, which shortens development time and speeds time to market. LoRa technology is ideal for battery-operated sensors and low power applications such as IoT, M2M, Smart City, Sensor networks, Industrial automation, and more.

LoRaWAN frequency bands supported:

US902-928: RN2903A-I/RMAU915-928: RN2903A-I/RMSA

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Key Features

On-board LoRaWAN Class A and Class C protocol stack

ASCII command interface over UART

Compact form factor 17.8 x 26.7 x 3 mm

Castellated SMT pads for easy and reliable PCB mounting

Device Firmware Upgrade (DFU) over UART

14 GPIO for control, status, and ADC

Highly integrated module with MCU, crystal, EUI-64 Node Identity Serial EEPROM, Radio transceiver with analog front end, and matching circuitry

Environmentally friendly, RoHS compliant

FCC and IC Certified

ANATEL Certified

Recommended For You

RN171-I/RM

Microchip Technology, Inc
MODULE

RN42-I/RM630

Microchip Technology, Inc
MODULE-35

RN42XVP-I/RM

Microchip Technology, Inc
MODULE-20

RN4870-V/RM118

Microchip Technology, Inc
MODULE-33

RN171XVU-I/RM

Microchip Technology, Inc
MODULE-20

RN42N-I/RM

Microchip Technology, Inc
MODULE

RN42-I/RM

Microchip Technology, Inc
35-SMD

RN131C/RM

Microchip Technology, Inc
Module

RN4020-V/RM120

Microchip Technology, Inc
MODULE

RN2483A-I/RM105

Microchip Technology, Inc
MODULE

RN4871U-V/RM118

Microchip Technology, Inc
MODULE-17

RN1723-I/RM100

Microchip Technology, Inc
Module

RN4870-I/RM130

Microchip Technology, Inc
MODULE

RN42HID-I/RM

Microchip Technology, Inc
MODULE-35

RN52-I/RM116

Microchip Technology, Inc
Module