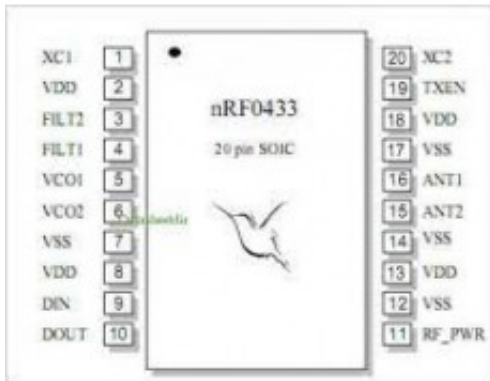


nRF0433 433MHz RF Transceiver



Product Code: 599aa

Stock: 1

Custom Field 5 (Location): S74b

Call for Price: 91166668

Short Description

Single chip 433MHz RF Transceiver

Description

PRODUCT SPECIFICATION

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Single chip 433MHz RF Transceiver

FEATURES

- True single chip FSK transceiver
- On chip UHF synthesiser, 4MHz crystal reference
- 433MHz ISM band operation
- Few external components required
- Up to 10mW transmit power
- No setup/configuration

APPLICATIONS

- Alarm and Security Systems
- Home Automation
- Remote Control
- Surveillance
- Automotive
- Telemetry
- Toys

GENERAL DESCRIPTION

nRF0433 is a true single chip UHF transceiver designed to operate in the 433MHz ISM (Industrial, Scientific and Medical) frequency band. It features Frequency Shift Keying (FSK) modulation and demodulation capability. nRF0433 operates at bit rates up to 9600 bit/s. Transmit power can be adjusted to a maximum of 10dBm. It features a differential antenna interface and an internal transmit/receive switch. nRF0433 operates from a single +5V DC supply.

As a primary application, nRF0433 is intended for design of UHF transceivers in compliance with the European Telecommunication Standard Institute (ETSI) specification EN 300 220-1 V1.2.1.

QUICK REFERENCE DATA

Parameter	Value	Unit
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Frequency	433.936	MHz
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Modulation	FSK	
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Frequency deviation	± 15	kHz
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Max. RF output power @ 400W	10	dBm
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Sensitivity @ 400W, BR=1200 bps, BER<10 ⁻³	-103	dBm
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Maximum baud rate	9600	bit/s
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Supply voltage	DC 5	V
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Receive supply current	23	mA
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Transmit supply current @ -2 dBm RF output power	33	mA
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Table 1. nRF0433 quick reference data.

ORDERING INFORMATION

Type number	Description	Version
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nRF0433-IC	20 pin SOIC	i-2
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nRF0433-EVKIT	Evaluation kit with nRF0433 IC on board	e-2
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Table 2. nRF0433 ordering information.

RF0433

datablad

<http://rfelektronik.se/manuals/Datasheets/nRF0433.pdf>