

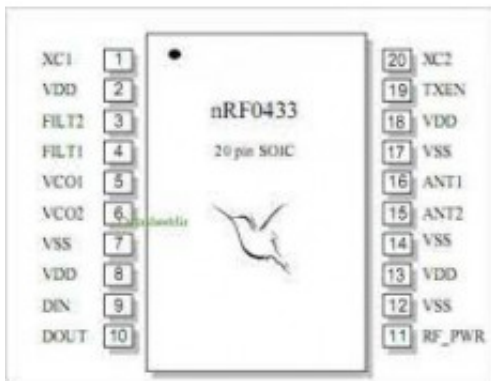
nRF0433 433MHz RF Transceiver

Produktkode: 599aa

Tilgjengelighet: 1

Lager : S74b

Ring/SMS etter pris: 91166668



Short Description

Single chip 433MHz RF Transceiver

Beskrivelse

PRODUCT SPECIFICATION

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Revision: 3.2 Page 1 of 14 February 2000

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

· Wireless Communication

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

Frequency 433.936 MHz

Modulation FSK

Frequency deviation ± 15 kHz

Max. RF output power @ 400W 10 dBm

Sensitivity @ 400W, BR=1200 bps, BER<10⁻³ -103 dBm

Maximum baud rate 9600 bit/s

Supply voltage DC 5 V

Receive supply current 23 mA

Transmit supply current @ -2 dBm RF output power 33 mA

Table 1. nRF0433 quick reference data.

ORDERING INFORMATION

Type number Description Version

nRF0433-IC 20 pin SOIC i-2

nRF0433-EVKIT Evaluation kit with nRF0433 IC on board e-2

Table 2. nRF0433 ordering information.

RF0433

datablad

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