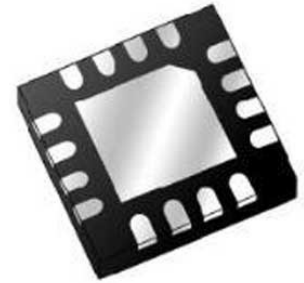


LNA RF Front End 2.5dB 25dB 16-Pin QFN EP T/R



Images are for reference only

[Inquiry](#)

Manufacturer: [Skyworks Solutions, Inc](#)

Package/Case: QFN16

Product Type: RF Integrated Circuits

RoHS: RoHS Compliant/Lead free 

Lifecycle: Active

General Description

The RFX2401C is a fully integrated, single-chip, single-die RFeIC (RF Front-end Integrated Circuit) which incorporates all the RF functionality needed for IEEE 802.15.4/ZigBee, wireless sensor network, and any other wireless systems in the 2.4GHz ISM band. The RFX2401C architecture integrates the PA, LNA, Transmit and Receive switching circuitry, the associated matching network, and the harmonic filter all in a CMOS single-chip device.

Typical high power applications include home and industrial automation, smart power, and RF4CE among others. Combining superior performance, high sensitivity and efficiency, low noise, small form factor, and low cost, RFX2401C is the perfect solution for applications requiring extended range and bandwidth. RFX2401C has simple and low-voltage CMOS control logic, and requires minimal external components for system implementation.

Key Features

2.4GHz ZigBee High Power Single-Chip, Single-Die RF Front-End IC

Combined TX / RX Transceiver Port and Single Antenna Port

2.4GHz Transmit High Power Amplifier with Low-Pass Harmonic Filter

Low Noise Amplifier

Transmit / Receive Switch Circuitry

High Transmit Signal Linearity Meeting Standards for OQPSK Modulation

Low Voltage (1.2V) CMOS Control Logic

ESD Protection Circuitry on All Ports

DC Decoupled RF Ports

Internal RF Decoupling on All VDD Bias Pins

Low Noise Figure for the Receive Channel

Very Low DC Power Consumption

Full On-chip Matching and Decoupling Circuitry

Minimal External Components Required

50-Ohm Input / Output Matching

Market Proven CMOS Technology

3 x 3 x 0.55mm Small Outline QFN-16 Package with Exposed Ground Pad

Application

Home Security and Automation

Lighting

Smart Cities

Smart Energy

Connected Homes

Recommended For You

RFX2402E

Skyworks Solutions, Inc

QFN16

RFX2411

Skyworks Solutions, Inc

QFN

RFX1010

Skyworks Solutions, Inc

QFN16

RFX2411N

Skyworks Solutions, Inc

QFN-20

RFX2402C

Skyworks Solutions, Inc

QFN16

RFX8050W

Skyworks Solutions, Inc

QFN

RFX8425

Skyworks Solutions, Inc

QFN

RFX8053

Skyworks Solutions, Inc

QFN

RFX8422S

Skyworks Solutions, Inc

QFN

RFX5000B

Skyworks Solutions, Inc

QFN

RFX8055

Skyworks Solutions, Inc

QFN

RFX8050

Skyworks Solutions, Inc

QFN

RFX8051B

Skyworks Solutions, Inc

QFN16

RFX8422

Skyworks Solutions, Inc

QFN

SKY85712-21

Skyworks Solutions, Inc

QFN