

## PRODUCT SUMMARY

# SKY66415-11: 2.4 GHz Front-End Module for Bluetooth®/Zigbee®/Thread Applications

## Applications

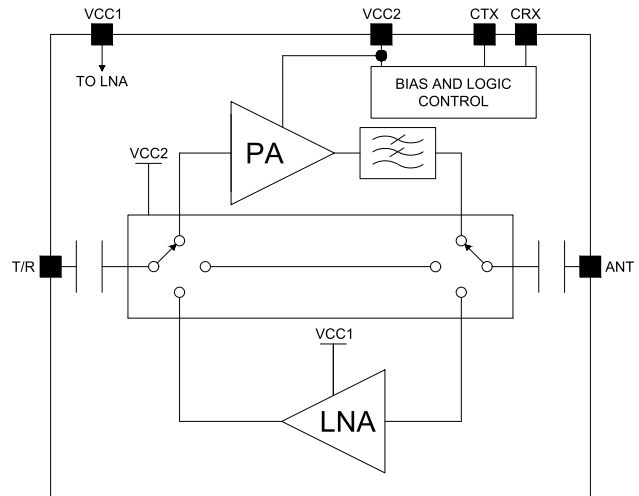
- Medical wearable devices
- Wireless health monitoring
- Trackers
- Internet of Things (IoT) devices

## Features

- Highly efficient, integrated PA with up to +11 dBm output power
- Integrated LNA (RX mode noise figure 2.2 dB typ.)
- Bypass path for TX/RX
- Single-ended transmit/receive interface
- Fast switch on/off time: < 1  $\mu$ s
- VCC2 supply range: 1.7 V to 2.0 V
- Sleep mode current: < 1  $\mu$ A typical
- Small 9-pin (1.32 mm x 1.32 mm x 0.35 mm nominal) Chip Scale Package (CSP) (MSL1, 260 °C per JEDEC-J-STD-020)
- For RoHS and other product compliance information, see the [Skyworks Certificate of Conformance](#).

## Description

The SKY66415-11 is a high-performance, fully integrated RF front-end module (FEM) designed for Bluetooth® (including low energy), Zigbee®, and Thread applications.



**Figure 1. Functional Block Diagram**

The SKY66415-11 is designed for ease of use and maximum flexibility. The device provides a power amplifier, low-noise amplifier, low-loss bypass path, and transmit/receive switches. The RF blocks operate over a wide supply voltage range from 1.7 V to 2.0 V that allows the SKY66415-11 to be used in battery-powered applications over a wide spectrum of the battery discharge curve.

## Ordering Information

Part Number	Description	Evaluation Board Part Number
SKY66415-11	2.4 GHz Front-End Module for Bluetooth®/Zigbee®/Thread Applications	SKY66415-11EK1

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