

## PRODUCT SUMMARY

# SKY66408-11: 2.4 GHz Front-End Module (FEM) for Zigbee Technology, Thread, and Devices with a Port Suitable for Bluetooth® Applications

## Applications

- In-home appliances
- Smart thermostats
- Internet of Things (IoT) devices
- Smart lighting
- Sensors
- Range extender
- Wireless audio

## Features

- Fully programmable Pout via I2C interface
- Integrated PA with up to +21 dBm output power
- Integrated LNA (2.5 dB noise figure typical) and bypass path
- Integrated antenna diversity switching for all modes
- Single-ended transmit/receive interface
- Supply range: 1.7 V to 3.6 V
- Sleep mode current: < 3  $\mu$ A typical
- No external bias resistor is required
- Small MCM (24-pin, 3.0 mm x 3.0 mm x 0.6 mm) package, NiPdAu-plated (MSL3, 260 °C per JEDEC-J-STD-020)



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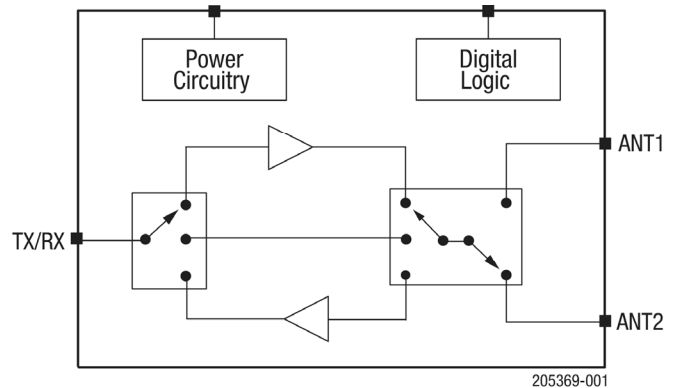


Figure 1. SKY66408-11 Block Diagram

## Description

The SKY66408-11 is a high-performance, fully integrated RF front-end module (FEM) designed for Zigbee technology, Thread, and devices with a port suitable for Bluetooth® (including low energy) applications.

The SKY66408-11 is designed for ease of use and maximum flexibility. The device provides an integrated inter-stage matching and harmonic filter, and digital controls compatible with 1.2 V to 3.6 V CMOS levels.

The RF blocks operate over a wide supply voltage range from 1.7 V to 3.6 V that allows the SKY66408-11 to be used in battery powered applications over a wide spectrum of the battery discharge curve.

A functional block diagram is shown in Figure 1. The SKY66408-11 is provided in a small, 24-pin, 3.0 mm x 3.0 mm Multi-Chip Module (MCM) package. The pin configuration and package are shown in Figure 2. Signal pin assignments and functional pin descriptions are provided in Table 1.

## Ordering Information

Part Number	Product Description	Evaluation Board Part Number
SKY66408-11	SKY66408-11: 2.4 GHz Front End Module	SKY66408-11EK1

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