

PRODUCT SUMMARY

SE2436L: High Power 2.4 GHz 802.15.4 Front-End Module

Applications

- Smart Meters
- In-home appliances
- Smart thermostats

Features

- Integrated:
 - PA with 27 dBm output power
 - Low Noise Amplifier (LNA) with programmable bypass
 - Antenna switching with Transmit (Tx) and Receive (Rx) diversity function
- Low Front-End Module (FEM) noise figure of 2.5 dB typical
- Single-ended 50 Ω Tx/Rx Radio Frequency (RF) interface
- \bullet Fast switch ON/OFF time <1 μs
- 2.0 V-4.8 V supply operation
- Sleep mode current <1 μ A
- 4.0 mm x 4.0 mm x 0.9 mm 24-pin QFN
- Pb-free, RoHS compliant, and Halogen free



Skyworks GreenTM products are compliant with all applicable legislation and are halogen-free. For additional information, refer to *Skyworks Definition of Green*TM, document number SQ04-0074.

Description

The SE2436L is a high performance, fully integrated RF FEM that is designed for ZigBee[®]/Smart Energy and 802.15.4 applications that require high transmit power.

The SE2436L is designed for ease of use and maximum flexibility, with a fully matched 50 Ω input and output, an integrated interstage matching and harmonic filter, and digital controls compatible with 1.6 V–3.6 V Complementary Metal Oxide Semiconductor (CMOS) levels.

The RF blocks operate over a wide supply voltage range from 2.0 V to 4.8 V, which allows the SE2436L to be used in battery-powered applications over a wide spectrum of the battery discharge curve.

A functional block diagram of the SE2436L is shown in Figure 1.

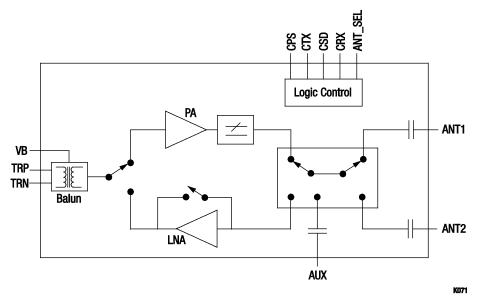


Figure 1. SE2436L Block Diagram

Ordering Information

Model Name	Manufacturing Part Number	Evaluation Board Part Number
SE2436L: High Power 2.4 GHz 802.15.4 Front-End Module	SE2436L	SE2436L-EK1

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