

Applications

- Smart Meters
- In-home appliances
- Smart thermostats

Features

- Integrated PA with 27 dBm output power
- Integrated LNA with programmable bypass
- Integrated antenna switching with Tx and Rx diversity function
- Low FEM noise figure of 2.5 dB typical
- Single ended 50 Ω Tx/Rx RF interface
- Fast switch ON/OFF time <1 μ sec
- 2.0 V – 4.8 V supply operation
- Sleep mode current <1 μ A
- 4 x 4 x 0.9 mm 24 pin QFN
- Pb-free, RoHS compliant and Halogen free

Product Description

The SE2436L is a high performance, fully integrated RF Front End Module designed for ZigBee/Smart Energy and 802.15.4 applications requiring high transmit power.

The SE2436L is designed for ease of use and maximum flexibility, with fully matched 50 Ω input and output, integrated inter-stage matching and harmonic filter, and digital controls compatible with 1.6 – 3.6 V CMOS levels.

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

Ordering Information

Part No.	Package	Remark
SE2436L-S	24 pin QFN	Samples
SE2436L-R	24 pin QFN	Tape & Reel
SE2436L-EK1	N/A	Evaluation kit

Functional Block Diagram

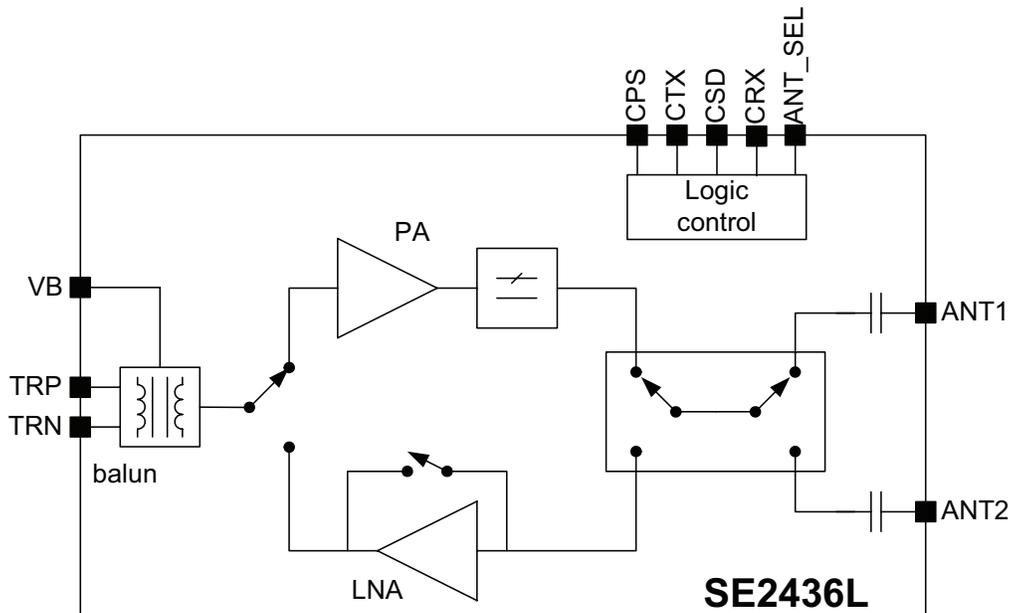


Figure 1: Functional Block Diagram

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Product Preview

The datasheet contains information from the product concept specification. SiGe Semiconductor, Inc. reserves the right to change information at any time without notification.

Preliminary Information

The datasheet contains information from the design target specification. SiGe Semiconductor, Inc. reserves the right to change information at any time without notification.

Production testing may not include testing of all parameters.

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