

Applications

- IEEE802.11b DSSS WLAN
- IEEE802.11g OFDM WLAN
- Access Points, PCMCIA, PC cards

Features

- Pin for pin compatible to SiGe's SE2521A34 but providing 2 dB extra output power
- Dual Mode IEEE802.11b & IEEE802.11g
- All RF ports matched to 50 Ω
- Integrated PA, TX Filter, DPDT T/R and Diversity switches
- Integrated Power Detector
- 23 dBm O/P Power, 802.11b, 11 Mbits, ACPR <- 35 dBc
- 18 dBm @ 2.0 %, 802.11g, 54 Mbits
- Single supply voltage: 3.3 V ± 10 %
- Lead free and RoHS compliant
- Small lead free plated package, 8 mm x 7 mm x 1.1 mm, MSL 3

Product Description

The SE2521A60 is a complete 802.11 b/g WLAN RF front-end module providing all the functionality of the power amplifier, power detector, T/R switch, diversity switch and associated matching. The SE2521A60 provides a complete 2.4 GHz WLAN RF solution from the output of the transceiver to the antennas in an ultra compact form factor.

Designed for ease of use, all RF ports are matched to 50 Ω to simplify PCB layout and the interface to the transceiver RFIC. The SE2521A60 also includes a transmitter power detector with 20 dB of dynamic range and a digital enable control for transmitter power ramp on/off control. The power ramp rise/fall time is 1 μsec typical.

The device also provides a notch filter from 3.2-3.3 GHz prior to the input of the power amplifier.

The SE2521A60 is footprint compatible to SiGe's SE2521A34 and can be placed directly into existing SE2521A34 designs easily providing higher output power solutions

Ordering Information

Part No.	Package	Remark
SE2521A60	24 pin LGA	Samples
SE2521A60-R	24 pin LGA	Tape and Reel
SE2521A60-EK1	N/A	Evaluation kit

Functional Block Diagram

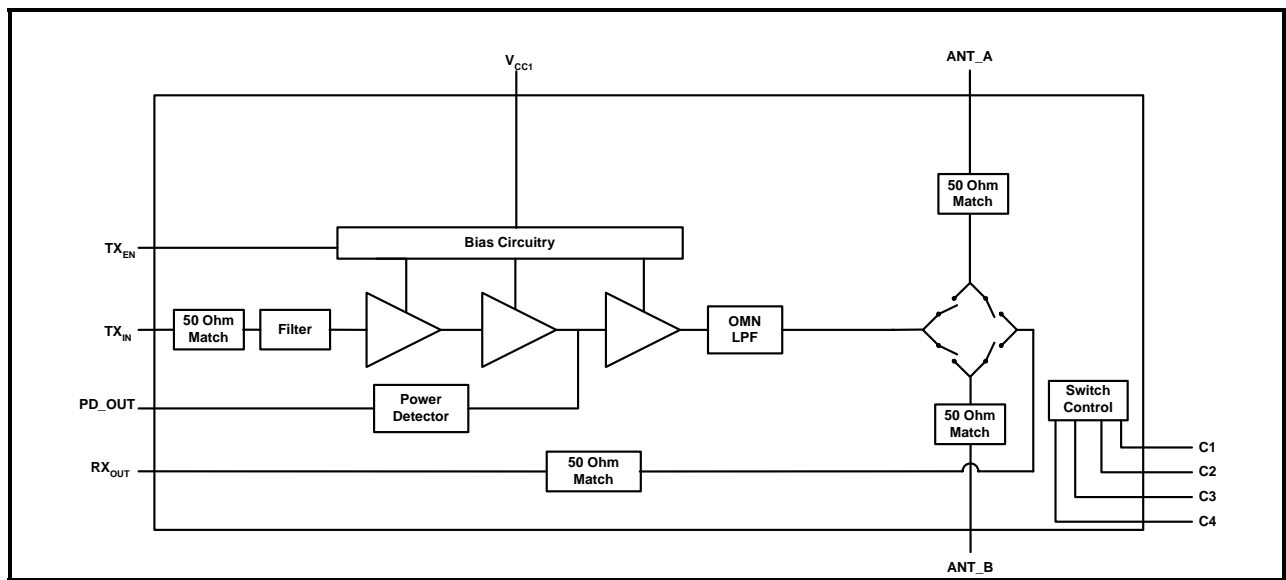


Figure 1: Functional Block Diagram

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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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