

Applications

- DSSS 2.4 GHz WLAN (IEEE802.11b)
- OFDM 2.4 GHz WLAN (IEEE802.11g)
- Portable and Battery WLAN Applications
- Access Points, PCMCIA, PC cards

Features

- Single 3.3 V Supply Operation
- 18.5 dBm, EVM = 3 %, 802.11g, OFDM 54 Mbps
- 23 dBm, ACPR < -32 dBc, 802.11b
- 32 dB Gain
- Selectable Power Detector Slope for use with multiple chipsets (Negative and Positive)
- Integrated power amplifier enable pin (V_{EN})
- Lead Free and RoHS Compliant
- Ultra thin package: 0.5 mm
- Small package, 16 pin 3 mm x 3 mm x 0.5 mm QFN

Product Description

The SE2523BU is a 2.4 GHz power amplifier designed for use in the 2.4 GHz ISM band for wireless LAN applications. The device incorporates two selectable power detectors for closed loop monitoring of the output power.

The SE2523BU includes a digital enable control for device on/off control.

The SE2523BU temperature compensated power detector has two selectable power detectors slopes, positive and negative. This allows easy use with multiple chipsets. The detector is also highly immune to mismatch at its output with less than 1.5 dB of variation with a 2:1 mismatch.

Ordering Information

| Part Number | Package | Remark |
|--------------|----------------|---------------|
| SE2523BU | 16 Pin QFN | Samples |
| SE2523BU-R | 16 Pin QFN | Tape and Reel |
| SE2523BU-EK1 | Evaluation Kit | Standard |

Functional Block Diagram

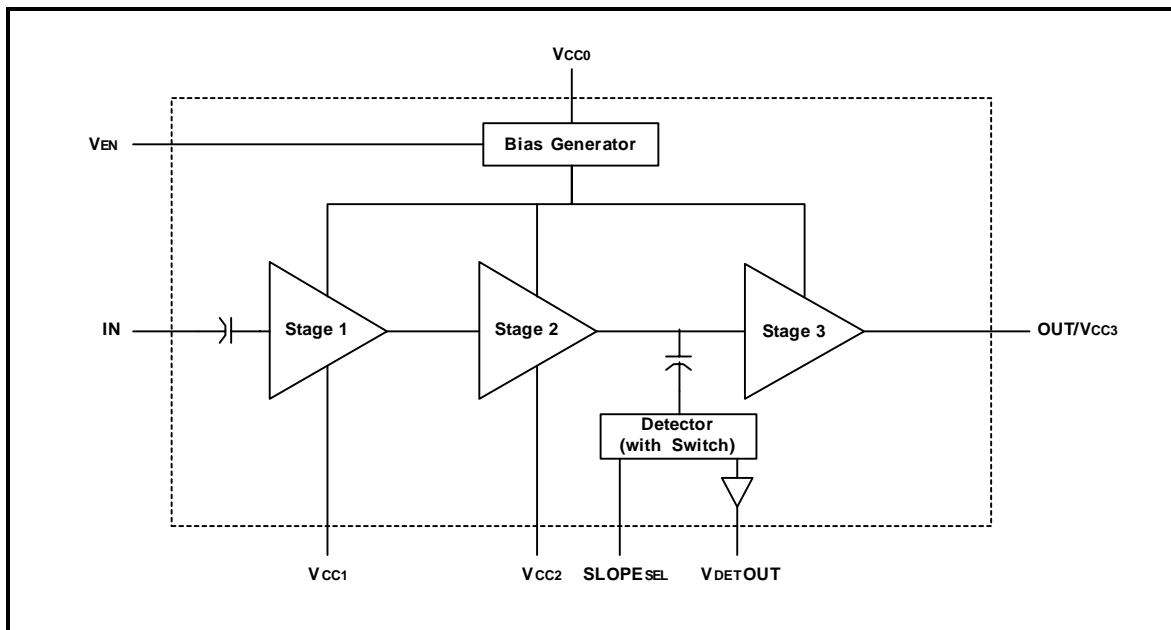


Figure 1: Functional Block Diagram

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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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