

Applications

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

Features

- Single 3.3 V Supply Operation
 - o 21 dBm, EVM = 3 %, 802.11g, OFDM 54 Mbps
 - o 24 dBm, ACPR < -32 dBc, 802.11b
- Dual Supply Operation
 - o 23 dBm, EVM = 3 %, 802.11g, OFDM 54 Mbps
 - o 25 dBm, ACPR < -32 dBc, 802.11b
- 33 dB Gain
- Pin for pin compatible to the SE2525L
- Selectable Power Detector Slope for use with multiple chipsets (Negative and Positive)
- Integrated power amplifier enable pin (V_{EN})
- Lead Free package, 16 pin 4 mm x 4 mm x 0.9 mm QFN

Ordering Information

Part Number	Package	Remark
SE2528L	16 Pin QFN	Samples
SE2528L-R	16 Pin QFN	Tape and Reel
SE2528L-EK1	Evaluation Kit	Standard

Product Description

The SE2528L 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 SE2528L is form, fit and function identical to SiGe's SE2525L. The SE2528L design can be placed on SE2525L designs to provide higher output power with only a few component changes.

The SE2528L also offers a high power mode by operating at 5 V. This provides an extra 2 dB of improved EVM performance.

The SE2528L includes a digital enable control for device on/off control.

The device is pin for pin compatible to SiGe's SE2525L, allowing both devices to share the same application board with only a few component changes required. This provides users with both a high and low power solution without changing the layout.

The SE2528L 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.

Functional Block Diagram

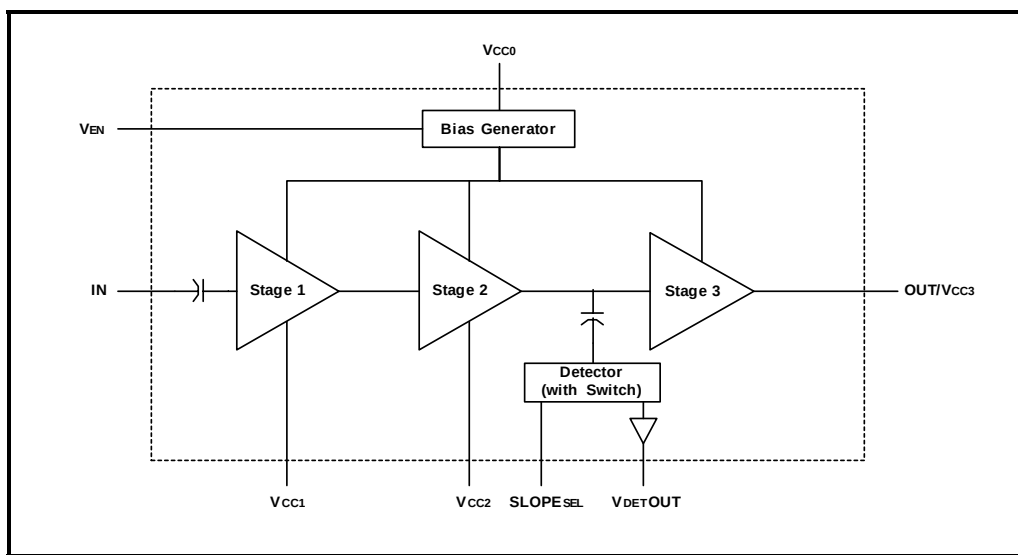


Figure 1: Functional Block Diagram

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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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