

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
 - 20 dBm, EVM = 3 %, 802.11g, OFDM 54 Mbps
 - 23 dBm, ACPR < -32 dBc, 802.11b
- On board 5 GHz Voltage reference and enable circuitry to be used in combination with SiGe's SE2535L or SE2536L
- 33 dB Gain
- 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

Product Description

The SE2581L 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 SE2581L includes the reference voltage and PA enable support for SiGe's 5 GHz power amplifiers, the SE2535L or SE2536L. The 2.4 and 5 GHz devices, used together, provide the industry's lowest cost, highest performance dual band solution.

The SE2581L includes a digital enable control for device on/off control.

The SE2581L 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
SE2581L	16 Pin QFN	Samples
SE2581L-R	16 Pin QFN	Tape and Reel
SE2581L-EK1	Evaluation Kit	Standard

Functional Block Diagram

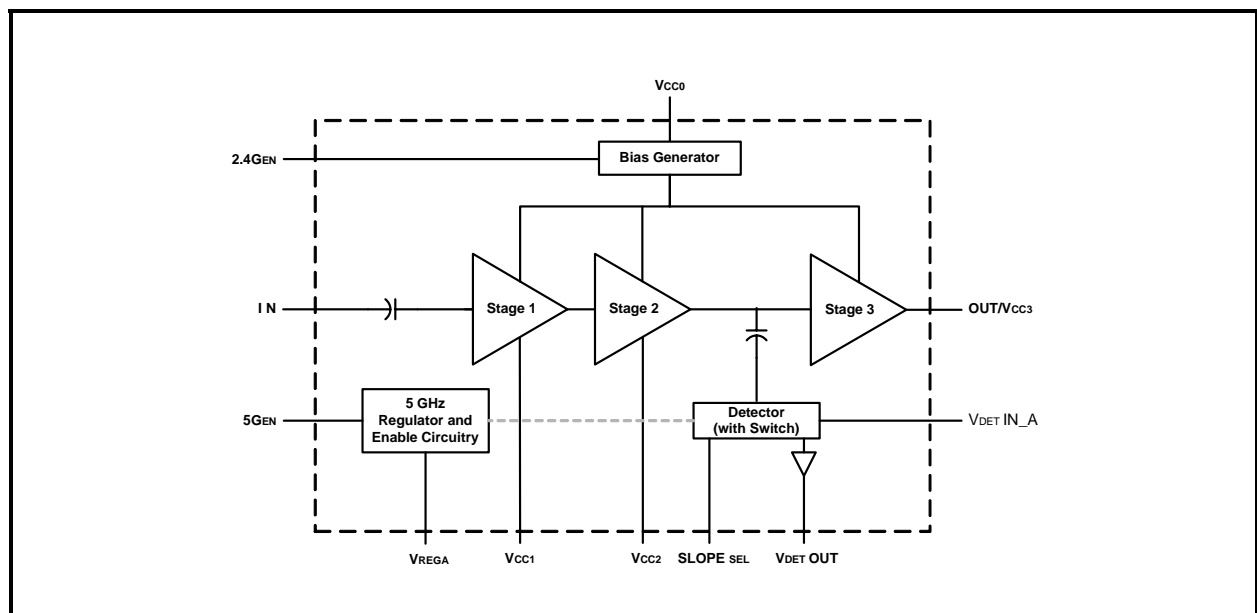


Figure 1: Functional Block Diagram