

Applications

- IEEE802.11b DSSS WLAN
- IEEE802.11g OFDM WLAN
- Embedded, SiP modules

Features

- Dual Mode IEEE802.11b & IEEE802.11g
- Integrated PA, digital bias control, 50Ω input and output match, 3.2GHz TX Filter.
- Integrated harmonic filter.
- Integrated load insensitive Power Detector, with <1dB error at 2:1 mismatch
- 20 dBm Output Power, 802.11b, 11 Mbps, ACPR
 <-30 dBc
- 18dBm @ 3.0 % EVM, 802.11g, 54 Mbps
- 2.3 V to 4.8 V direct to battery supply
- Lead free, Halogen free, ROHS compliant, 2 x2x0.5 mm QFN package, MSL 1

Ordering Information

Part No.	Package	Remark
SE2568U	8 pin QFN	Samples
SE2568U-R	8 pin QFN	Tape and Reel
SE2568U-EK1	N/A	Evaluation kit

Product Description

The SE2568U is a complete 802.11 b/g WLAN discrete power amplifier. The device provides all the functionality of the power amplifier, power detector, filter, associated input, inter-stage and output matching in an ultra compact 2mm x 2mm x 0.5mm form factor.

The SE2568U is designed for ease of use, with all the critical input and output matching integrated. The SE2568U includes a transmitter power detector with 20 dB of dynamic range and a digital Enable for power on/off control. Harmonic filters and an input 3.2GHz LO rejection filter are integrated on-chip. The power ramp rise/fall time is 0.7 µs typical.

Functional Block Diagram

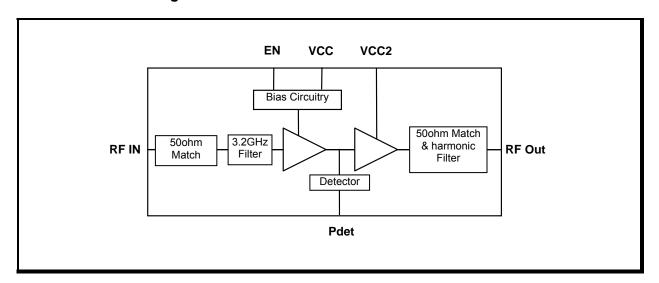


Figure 1: Functional Block Diagram



http://www.sige.com

Email: sales@sige.com

Customer Service Locations:

North America: 1050 Morrison Drive, Suite 100

Ottawa ON K2H 8K7 Canada

Phone: +1 613 820 9244

Fax: +1 613 820 4933

Hong Kong

Phone: +852 3428 7222 Fax: +852 3579 5450

San Diego

Phone: +1 858 668 3541 (ext. 226)

Fax: +1 858 668 3546

United Kingdom

Phone: +44 1279 464217 Fax: +44 1279 464201

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.

Information furnished is believed to be accurate and reliable and is provided on an "as is" basis. SiGe Semiconductor, Inc. assumes no responsibility or liability for the direct or indirect consequences of use of such information nor for any infringement of patents or other rights of third parties, which may result from its use. No license or indemnity is granted by implication or otherwise under any patent or other intellectual property rights of SiGe Semiconductor, Inc. or third parties. Specifications mentioned in this publication are subject to change without notice. This publication supersedes and replaces all information previously supplied. SiGe Semiconductor, Inc. products are NOT authorized for use in implantation or life support applications or systems without express written approval from SiGe Semiconductor, Inc.

Copyright 2008 SiGe Semiconductor, Inc. All Rights Reserved