

PRODUCT SUMMARY

SKY85312-11: 2.4 GHz, 802.11ac Front-End Module

Applications

- WiFi-enabled handsets, tablets, and mobile/portable systems
- System-in-Package (SIP) modules for embedded systems
- 802.11n/ac smartphones and tablets

Features

- Integrated high-performance 2.4 GHz PA, two SPDT switches, LNA with bypass, and one SP3T switch
- Integrated positive slope power detector
- Transmit gain: 28 dB
- Receive gain: 14 dB
- Output power: +19.5 dBm, MCS7, HT20
- Output power: +19 dBm, MCS9, HT20
- Small QFN (16-pin, 2.3 x 2.3 x 0.33 mm) package (MSL1, 260 °C per JEDEC J-STD-020)



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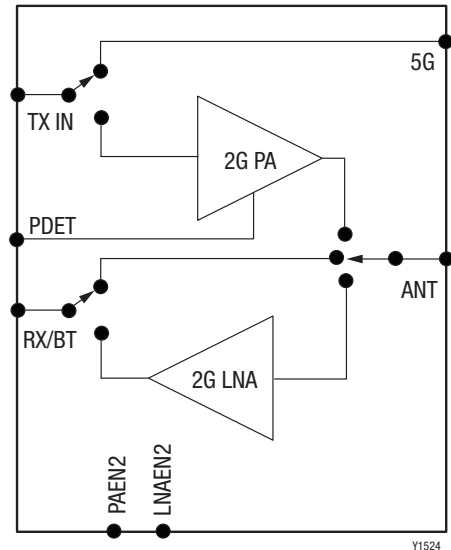


Figure 1. SKY85312-11 Block Diagram

Description

The SKY85312-11 is a complete 802.11b/g/n/ac WLAN RF front-end module (FEM) with a Bluetooth® port. The device provides all the functionality of a fully matched power amplifier (PA), power detector, harmonic filter, low-noise amplifier (LNA), single-pole, double-throw (SPDT) switches, and a single-pole, triple-throw (SP3T) switch.

The SKY85312-11 provides a complete 2.4 GHz WLAN RF solution from the output of the transceiver to the antenna, and from the antenna to the input of the transceiver. The LNA increases the receive sensitivity of embedded solutions to improve range or to overcome the insertion loss of cellular filters (often included for mobile applications).

The SKY85312-11 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 device is provided in a compact, 16-pin 2.3 x 2.3 mm Quad Flat No-Lead (QFN) package. A functional block diagram is shown in Figure 1.

Ordering Information

Model Name	Manufacturing Part Number	Evaluation Board Part Number
SKY85312-11: 2.4 GHz, 802.11ac Front End Module	SKY85312-11	SKY85312-11-EVB

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На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: info@moschip.ru

Skype отдела продаж:

moschip.ru

moschip.ru_4

moschip.ru_6

moschip.ru_9