

PRODUCT SUMMARY

SKY85814-11: SkyOne® WiFi Dual-Band (2.4 GHz and 5 GHz) 802.11ac Front-End Module

Applications

- WiFi-enabled handsets, tablets, and mobile/portable systems
- 802.11ac smartphones and tablets

Features

- Integrated high-performance 5 GHz PA with harmonic filter, LNA with bypass, and SPDT
- Integrated 2.4 GHz coexistence filter and directional coupler
- TX power save mode
- High isolation mode
- Fully matched input and output
- Transmit gain: 29 dB
- Receive gain: 11 dB
- Output power: +17 dBm, MCS7, HT20
- Output power: +15.5 dBm, MCS9, VHT80
- Nominal supply voltage: 3.7 V
- Small (24-pin, 3 × 3 × 0.8 mm) package (MSL3, 260 °C per JEDEC J-STD-020)



Skyworks Green™ products are compliant with all applicable legislation and are halogen-free. For additional information, refer to *Skyworks Definition of Green™*, document number SQ04-0074.

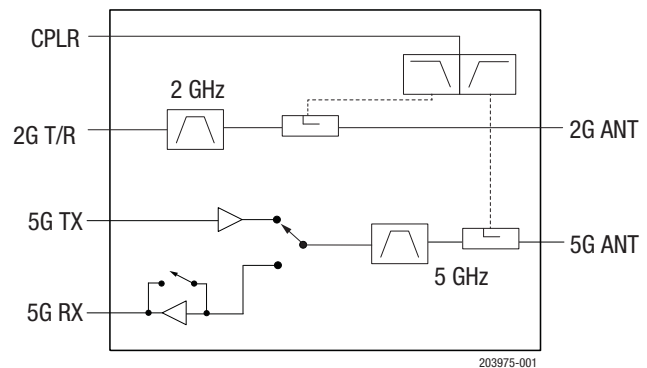


Figure 1. SKY85814-11 Block Diagram

Description

The SKY85814-11 is a highly integrated, dual-band front-end module (FEM) incorporating a 5 GHz single-pole, double-throw (SPDT) transmit/receive (T/R) switch, low-noise amplifier (LNA) with bypass, and power amplifier (PA). The SKY85814-11 also includes a 2 GHz coexistence filter and dual-band coupler. An enable/disable function is included that allows power savings during off mode.

The device is provided in a compact, 24-pin 3 × 3 mm package. A functional block diagram is shown in Figure 1.

Ordering Information

Product Description	Product Part Number	Evaluation Board Part Number
SKY85814-11: Dual Band 802.11ac Front End Module	SKY85814-11	SKY85814-11EK1

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