

PRODUCT SUMMARY

SKY85706-11: 5 GHz, 802.11n/ac Front-End Module

Applications

- Wi-Fi-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 5 GHz PA with harmonic filter, LNA with bypass, and SPDT
- Fully matched input and output
- Integrated, positive-slope power detector
- Transmit loopback mode
- Transmit gain: 30 dB
- Receive gain: 11 dB
- Output power: +18 dBm @ 3% EVM, 64 QAM 54 Mbps
- Output power: +15.5 dBm @ 1.8% EVM, MCS9, HT80
- Direct connection to battery with 3.6 V nominal supply voltage
- Small QFN (16-pin, 2.5 x 2.5 mm) package (MSL1, 260 °C per JEDEC J-STD-020)



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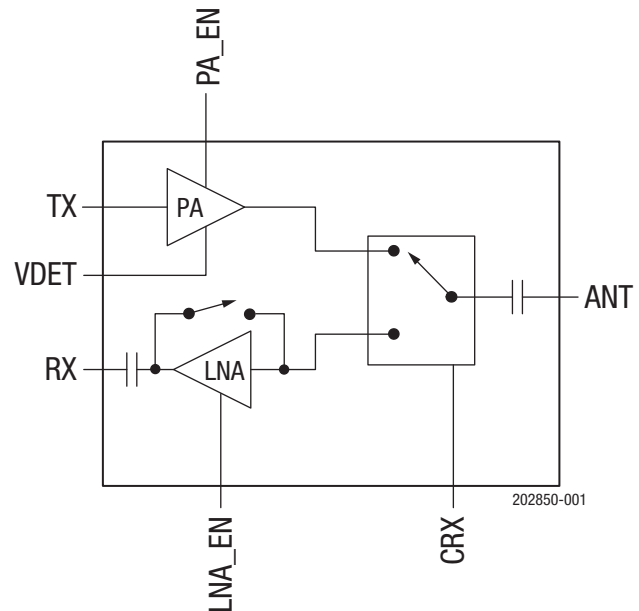


Figure 1. SKY85706-11 Block Diagram

Description

The SKY85706-11 is a highly integrated, 5 GHz front-end module (FEM) incorporating a 5 GHz single-pole, double-throw (SPDT) transmit/receive (T/R) switch, a 5 GHz low-noise amplifier (LNA) with bypass, and a 5 GHz power amplifier (PA) intended for mobile/portable 802.11n/ac applications and systems.

An enable/disable function is included that allows power savings during off mode. An integrated power detector with 20 dB of dynamic range is included to provide closed-loop power control within the system.

The device is provided in a compact, 16-pin 2.5 x 2.5 mm Quad Flat No-Lead (QFN) package. A functional block diagram is shown in Figure 1.

Ordering Information

Product Description	Product Part Number	Evaluation Board Part Number
SKY85706-11: 5 GHz, 802.11n/ac Front-End Module	SKY85706-11	SKY85706-11EK1

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