SKY85201-11: 2.4 to 2.5 GHz SPDT Switch with Low-Noise Amplifier
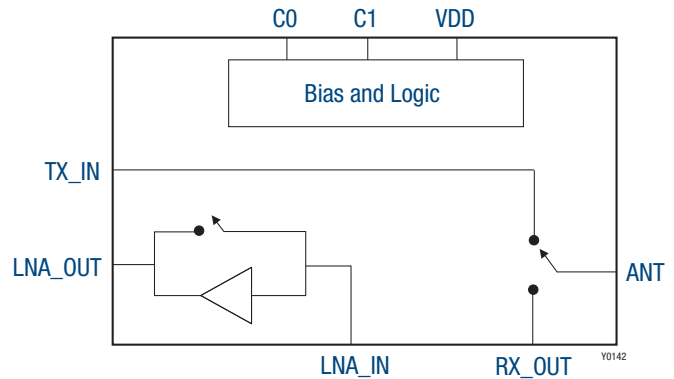
Applications

- 802.11 b/g/n/ac WLAN products
- 2 GHz ISM radios
- Smartphones
- Notebooks, netbooks, tablets
- Routers, access points, and gateways
- Wireless video systems

Features

- Low noise figure
- Frequency range: 2.4 to 2.5 GHz
- High IIP3
- High LNA gain
- Bypass mode with 20 dB gain step
- High transmit-to-receive isolation for high-power applications
- Small QFN (16-pin, 2.3 x 2.3 mm) package (MSL1, 260 °C per JEDEC J-STD-020)

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Figure 1. SKY85201-11 Block Diagram

Description

The SKY85201-11 is an integrated, single-pole double-throw (SPDT) switch with a low-noise amplifier (LNA) intended for wireless applications. The device has a low noise figure (NF) and offers the ability to add custom filtering between the switch and LNA blocks.

The SKY85201-11 operates at 3.3 V and draws low current. In the transmit mode, a shutdown function saves power when the device is inactive.

The FEM is manufactured in a compact, 2.3 x 2.3 mm, 16-pin Quad Flat No-Lead (QFN) package. The small footprint provides the industry's smallest PCB area needed to implement an integrated broadband SPDT switch with LNA functionality.

A functional block diagram is shown in Figure 1.

Ordering Information

Model Name	Manufacturing Part Number	Evaluation Board Part Number
SKY85201-11: SPDT Switch with LNA	SKY85201-11	SKY85201-EK1

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