

## PRODUCT SUMMARY

# SKY85601-11: 4.9-5.9 GHz SPDT Switch With Low-Noise Amplifier

## Applications

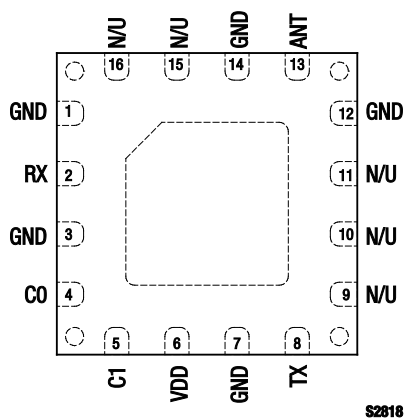
- 802.11 a/n WLANs
- 5 GHz ISM radios
- Smartphones
- Notebooks, netbooks, tablets
- Routers, access points, gateways
- Wireless video systems

## Features

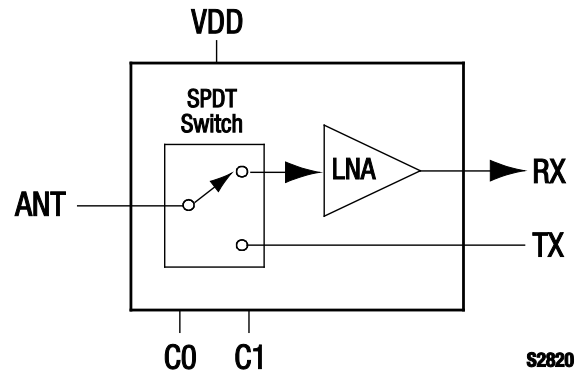
- Low Noise Figure: 2.5 dB
- Frequency range: 4.9 to 5.9 GHz
- High IIP3: +6 dBm
- High gain: 12 dB
- Bypass mode with -5 dB insertion loss
- High transmit to receive isolation for high power applications
- Small QFN (16-pin, 2.5 x 2.5 mm) package (MSL1, 260 °C per JEDEC J-STD-020)



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**Figure 2. SKY85601-11 Pinout – 16-Pin QFN (Top View)**



**Figure 1. SKY85601-11 Block Diagram**

## Description

The SKY85601-11 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) with high linearity in the transmit mode.

The SKY85601-11 operates at 3.3 V and draws 15 mA of current. In the transmit mode, a shutdown function saves power when the device is inactive. The switch requires five external components.

The switch is manufactured in a compact, 2.5 x 2.5 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. The pin configuration and package are shown in Figure 2.

## Ordering Information

Model Name	Manufacturing Part Number	Evaluation Board Part Number
SKY85601-11 SPDT Switch with LNA	SKY85601-11	SKY85601-EK1

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