

#### PRODUCT SUMMARY

# SKY85216-11: 2.4 to 2.5 GHz SPDT Switch with Low-Noise Amplifier

## **Applications**

- 802.11 b/g/n/ac/ax WLAN products
- 2 GHz ISM radios
- Set-top boxes
- Notebooks, netbooks, and tablets
- · Routers, access points, and home gateways
- · Wireless video systems

### **Features**

- Frequency range: 2.4 to 2.5 GHz
- Bypass mode with 7 dB insertion loss
- High transmit-to-receive isolation for high-power applications
- Small QFN (16-pin, 2.3 x 2.3 mm) package



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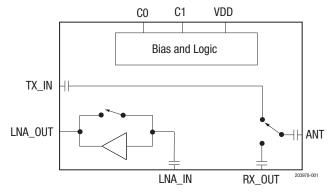


Figure 1. SKY85216-11 Block Diagram

#### **Description**

The SKY85216-11 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 SKY85216-11 operates at 5 V and draws 31 mA of 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**

Part Number	Product Description	Evaluation Board Part Number
SKY85216-11	SPDT Switch with LNA	SKY85216-11EK1

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