

## PRODUCT SUMMARY

# SKYA21040: 2.4 GHz, 802.11ac Switch/Low-Noise Amplifier Front End

## Applications

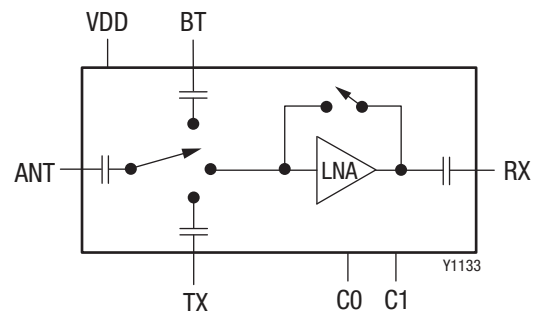
- Automotive 802.11n/ac WLAN networks
- Automotive infotainment and telematics
- Automotive connectivity modules

## Features

- Automotive AEC-Q100 grade 2 qualification pending
- Integrates an SP3T switch and LNA with bypass mode
- Receive gain: 14 dB
- Noise figure: 1.9 dB
- Transmit/Bluetooth® path loss: 0.7 dB
- Small DFN (8-pin, 1.5 x 1.5 mm) package (MSL1, 260 °C per JEDEC-J-STD-020)



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**Figure 1. SKYA21040 Block Diagram**

## Description

The SKYA21040 integrates a single-pole, triple-throw (SP3T) switch and low-noise amplifier (LNA) with a bypass mode in an ultra-compact package. The device is capable of switching between WLAN receive, WLAN transmit, and Bluetooth.

The SKYA21040 is provided in a small Dual Flat No-Lead (DFN) 8-pin, 1.5 x 1.5 mm package.

A functional block diagram is shown in Figure 1.

## Ordering Information

| Model Name  | Manufacturing Part Number | Evaluation Board Part Number |
|---|---------------------------|------------------------------|
| SKYA21040: 2.4 GHz, 802.11ac Switch/LNA Front-End | SKYA21040                 | SKYA21040-EVB                |

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