

#### PRODUCT SUMMARY

# SKY85729-11: 5 GHz WLAN Front-End Module

## **Applications**

- 802.11ax networking and personal computing systems
- PC cards, PCMCIA cards, mini-cards, and half mini-cards
- · WLAN-enabled wireless video systems

#### **Features**

- Integrated 802.11ax , 5 GHz PA, LNA with bypass, and T/R switch
- Fully-matched input and output
- Integrated logarithmic power detector and directional coupler
- Transmit gain: 32 dBReceive gain: 13 dB
- Output power:
  - MCS11, +18 dBm, -43 dB EVM
  - MCS9, +22.5 dBm, -35 dB EVM
  - MCS7, +24 dBm, -30 dB EVM
- Small QFN (16-pin, 3 x 3 mm) package (MSL1, 260 °C per JEDEC J-STD-020)



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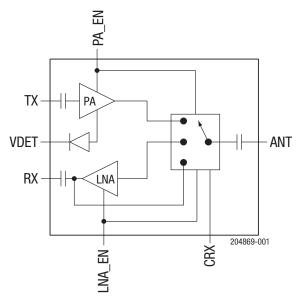


Figure 1. SKY85729-11 Block Diagram

### **Description**

The SKY85729-11 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 802.11ax applications and systems.

An integrated power detector is included to provide closed-loop power control within the system.

The device is provided in a compact, 16-pin 3 x 3 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
SKY85729-11: 5 GHz WLAN Front-End Module	SKY85729-11	SKY85729-11EK1

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