

PRODUCT SUMMARY

SKY85710-11: 5 GHz WLAN Front-End Module

Applications

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

Features

- Integrated high performance 5 GHz PA, LNA with bypass, and T/R switch
- Fully-matched input and output
- Integrated power detector and directional coupler
- Transmit gain: 31 dB
- Receive gain: 12 dB
- Output power: +21 dBm @ 1.8% EVM, HT80, MCS9, 5 V
- Output power: +22 dBm @ 3% EVM, HT40, MCS7, 5 V
- Small, QFN (24-pin, 3 x 5 mm) package (MSL3, 260 °C per JEDEC J-STD-020)



Skyworks Pb-free products are compliant with all applicable legislation. For additional information, refer to *Skyworks Definition of Lead (Pb)-Free*, document number SQ04-0073.

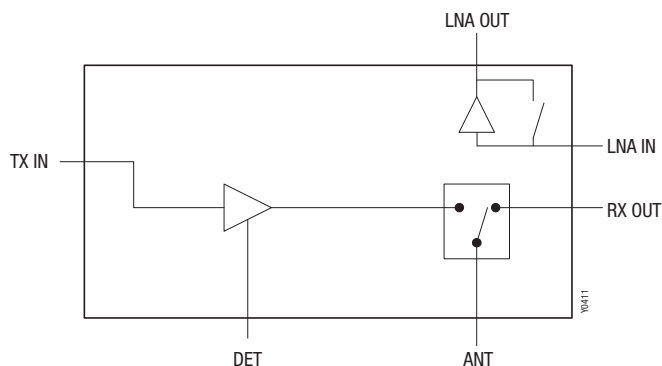


Figure 1. SKY85710-11 Block Diagram

Description

The SKY85710-11 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 high power 802.11ac applications and systems.

The LNA and PA disable functions ensure low leakage current in the off mode. An integrated power detector is included to provide closed-loop power control within the system.

The device is provided in a compact, 24-pin 3 x 5 mm Quad Flat No-Lead (QFN) package. A functional block diagram is shown in Figure 1.

Ordering Information

Model Name	Manufacturing Part Number	Evaluation Board Part Number
SKY85710-11 5-GHz WLAN Front-End Module	SKY85710-11	SKY85710-EK1 or -EK2

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