

PRODUCT SUMMARY

SKY85360-11: Skyworks® ICE™ 2.4 GHz Front-end Module for Wi-Fi® 7 Applications

Applications

- Wireless routers
- Access points
- Home gateways
- Customer Premise Equipment (CPE)
- Mesh/whole-home Wi-Fi® systems
- Wi-Fi based home entertainment systems

Features

- Integrated 2.4 GHz high efficiency PA, LNA with bypass, and T/R switch for Wi-Fi 7 (802.11be)
- Fully matched input and output
- Integrated logarithmic power detector and directional coupler
- Transmit gain: 33 dB
- Receive gain: 17 dB
- AM/AM distortion: 1 dB
- AM/PM distortion: 3 degrees
- Small (16-pin, 3 x 3 mm) LGA package (MSL3, 260 °C per JEDEC J-STD-020)
- For RoHS and other product compliance information, see the [Skyworks Certificate of Conformance](#).

Description

The SKY85360-11 is a high-efficiency, highly integrated, 2.4 GHz front-end module (FEM) incorporating a 2.4 GHz single-pole, double-throw (SPDT) transmit/receive (T/R) switch, a 2.4 GHz low-noise amplifier (LNA) with bypass, and a 2.4 GHz power amplifier (PA) with integrated digital pre-distortion (DPD) coupler intended for Wi-Fi 7 (802.11be) applications and systems.

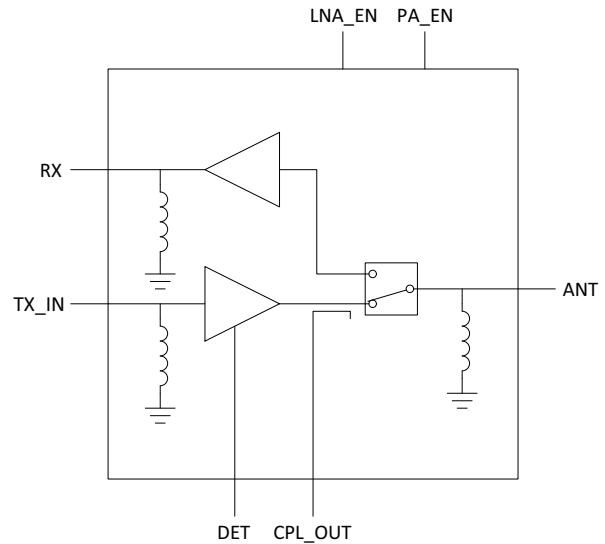


Figure 1. Functional Block Diagram

The LNA and PA disable functions ensure low leakage current in Off mode. An integrated logarithmic 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 Land Grid Array (LGA) package. A functional block diagram is shown in Figure 1.

Ordering Information

Part Number	Description	Evaluation Board Part Number
SKY85360-11	Skyworks® ICE™ 2.4 GHz Front-end Module for Wi-Fi® 7 Applications	SKY85360-11EK1

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