

PRODUCT SUMMARY

SKY85368-11: Non-Linear 2.4 GHz Mid-High Power 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) Land Grid Array (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 SKY85368-11 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.

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.

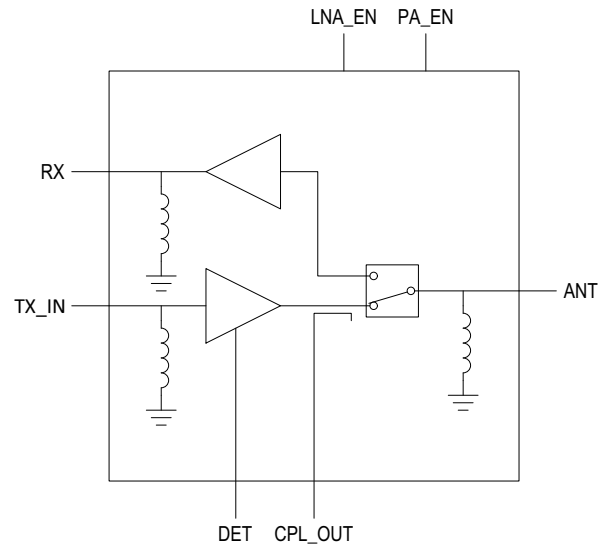


Figure 1. Functional Block Diagram

Ordering Information

Part Number	Description	Evaluation Board Part Number
SKY85368-11	Non-Linear 2.4 GHz Mid-High Power Front-End Module for Wi-Fi® 7 Applications	SKY85368-11EK1

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