



SKYWORKS®

PRODUCT SUMMARY

SKY85371-11: Non-Linear 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 non-linear, high-performance 2.4 GHz PA and LNA with bypass mode, T/R switch, and coupler for Wi-Fi 7 (802.11be)
- Fully-matched input and output
- Integrated logarithmic power detector
- Transmit gain: 32 dB
- Receive gain: 16 dB
- AM/AM distortion: 1 dB
- AM/PM distortion: 3 degrees
- 24-pin, 3 x 5 mm MCM package (MSL3, 260 °C per JEDEC J-STD-020)
- For RoHS and other product compliance information, see the [Skyworks Certificate of Conformance](#).

Description

The SKY85371-11 is a highly integrated, 2.4 GHz front-end module (FEM) incorporating a transmit/receive (T/R) switch, a high-performance, low-noise amplifier (LNA) with bypass mode, and a non-linear PA 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.

The device functional block diagram is shown in Figure 1.

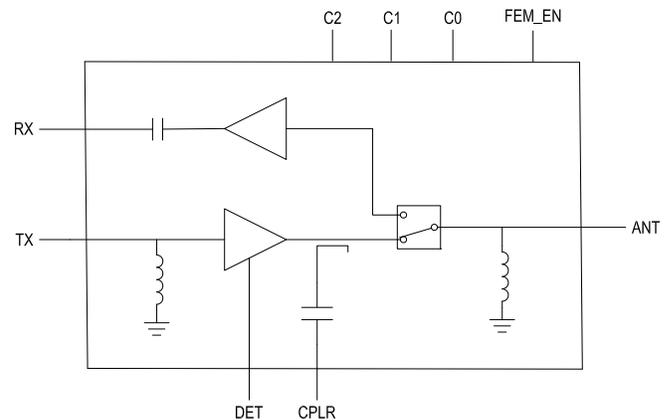


Figure 1. Functional Block Diagram

Ordering Information

Part Number	Description	Evaluation Board Part Number
SKY85371-11	Non-Linear 2.4 GHz Front-End Module for Wi-Fi® 7 Applications	SKY85371-11EK1

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