



SKYWORKS®

PRODUCT SUMMARY

SKY85791-11: 5 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
- Wi-Fi based video streaming systems

Features

- Integrated PA, LNA with bypass, T/R switch, and coupler for Wi-Fi 7 (802.11be) applications
- Fully-matched input and output
- Integrated logarithmic power detector
- Transmit gain: 32 dB
- Receive gain: 16 dB
- Output power:
 - MCS13, +16 dBm, DEVM= -43 dB
 - MCS11, +16 dBm, DEVM = -43 dB
 - MCS9, +21.5 dBm, DEVM = -35 dB
 - MCS7, +22.5 dBm, DEVM = -30 dB
 - MCS0, +26 dBm, VHT20 mask compliant
- 16-pin, Quad Flat No-Lead (QFN) package, 3.0 x 3.0 mm (MSL3, 260 °C per JEDEC J-STD-020)
- For RoHS and other product compliance information, see the [Skyworks Certificate of Conformance](#).

Description

The SKY85791-11 is a highly integrated front-end module (FEM) incorporating a transmit/receive (T/R) switch, a low-noise amplifier (LNA) with bypass, and a power amplifier (PA) for Wi-Fi 7 (802.11be) applications and systems.

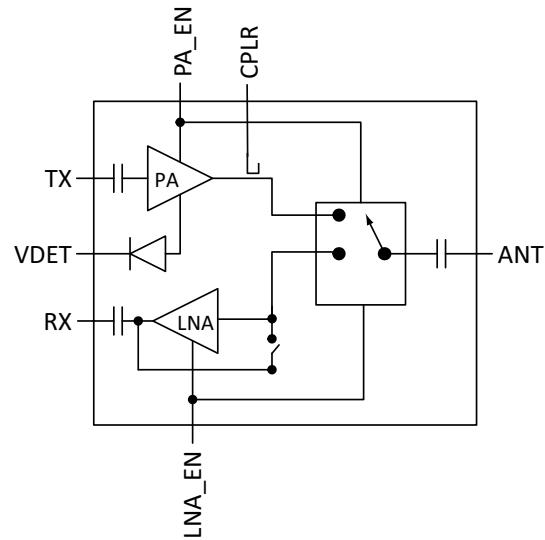


Figure 1. Functional Block Diagram

The PA output includes a coupler to allow for digital pre-distortion (DPD) in applications. In DPD applications, the coupler is also used in place of the power detector.

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 QFN package.

A functional block diagram is shown in Figure 1.

Ordering Information

Part Number	Description	Evaluation Board Part Number
SKY85791-11	5 GHz Front-End Module for Wi-Fi® 7 Applications	SKY85791-11EK1

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