

PRODUCT SUMMARY

SKY85746-11: 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

Features

- Integrated 5 GHz PA, LNA with bypass, and T/R switch
- Fully matched input and output
- Integrated logarithmic power detector
- Transmit gain: 32 dB
- Receive gain: 13 dB
- Output power
 - MCS13, +18 dBm, -43 dB DEVM
 - MCS11, +18 dBm, -43 dB DEVM
 - MCS11, +20 dBm, -40 dB DEVM
 - MCS9, +23 dBm, -35 dB DEVM
 - MCS7, +24 dBm, -30 dB DEVM
 - MCS0, +27 dBm, HT20 mask compliant
- 16-pin, 2.5 x 2.5 mm Quad Flat No-Lead (QFN) package (MSL1, 260 °C per JEDEC J-STD-020)
- For RoHS and other product compliance information, see the [Skyworks Certificate of Conformance](#).

Description

The SKY85746-11 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 mobile/portable 5 GHz Wi-Fi 7 (802.11be) applications and systems.

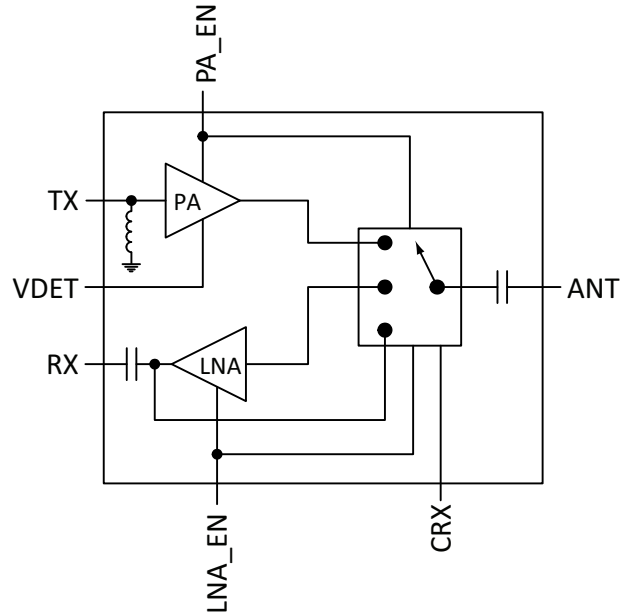


Figure 1. Functional Block Diagram

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 2.5 x 2.5 QFN package. A functional block diagram is shown in Figure 1. The pin configuration and package are shown in Figure 2. Signal pin assignments and functional pin descriptions are provided in Table 1.

Ordering Information

Part Number	Part Description	Evaluation Board Part Number
SKY85746-11	5 GHz Front-End Module for Wi-Fi® 7 Applications	SKY85746-11EK1

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