

**PRODUCT SUMMARY**

# SKY85639-11: Non-Linear 6 GHz Front-End Module for Wi-Fi® 7 Applications

## Applications

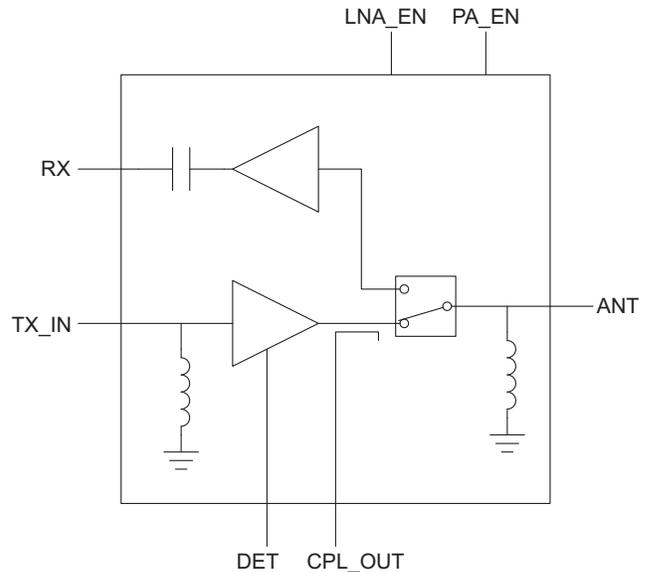
- Wireless routers
- Access points
- Home gateways
- Customer Premise Equipment (CPE)
- Mesh/whole-home Wi-Fi® systems
- Wi-Fi based home entertainment systems

## Features

- Integrated high-performance 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: 31 dB
- Receive gain: 15 dB
- AM/AM distortion: 1 dB
- AM/PM distortion: 3 degrees
- Small (16-pin, 3.0 x 3.0 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 SKY85639-11 is a highly integrated, front-end module (FEM) incorporating a transmit/receive (T/R) switch, a high-gain, low-noise amplifier (LNA) with bypass, and a power amplifier (PA) intended for Wi-Fi 7 (802.11be) applications and systems.



**Figure 1. Functional Block Diagram**

## Ordering Information

Part Number	Description	Evaluation Board Part Number
SKY85639-11	Non-Linear 6 GHz Front-End Module for Wi-Fi® 7 Applications	SKY85639-11EK1

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