

**PRODUCT SUMMARY**

# SKY85638-11: Non-Linear 6 GHz Front-End Module for Wi-Fi® 7 Applications

## Applications

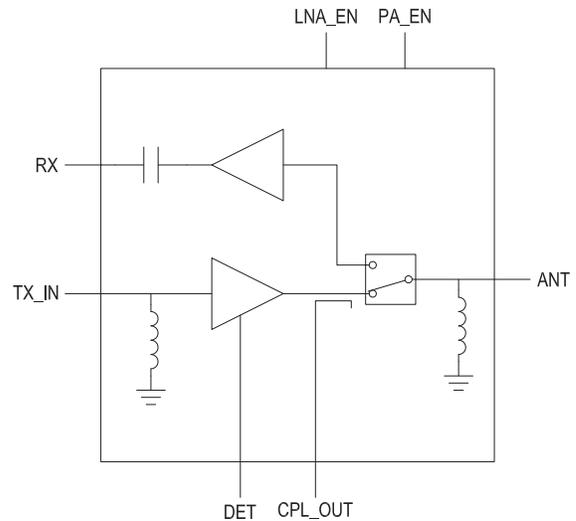
- Wireless routers
- Access points
- Home gateways
- Customer premise equipment (CPE)
- Mesh/whole-home Wi-Fi® systems
- Wi-Fi based home entertainment systems

## Features

- Integrated 6 GHz power amplifier (PA), low-noise amplifier (LNA) with bypass mode, transmit/receive (T/R) switch, and coupler for Wi-Fi 7 (802.11be) applications
- Fully matched input and output
- Integrated power detector
- Transmit gain: 32 dB
- Receive gain: 14.5 dB
- AM/AM distortion: 1 dB
- AM/PM distortion: 3 degrees
- 16-pin, 3 x 3 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 SKY85638-11 is a highly integrated, front-end module (FEM) incorporating a T/R switch, a high-gain LNA with bypass, and a PA intended for Wi-Fi 7 (802.11be) applications and systems.



**Figure 1. Functional Block Diagram**

## Ordering Information

Part Number	Description	Evaluation Board Number
SKY85638-11	Non-Linear 6 GHz Front-End Module for Wi-Fi® 7 Applications	SKY85638-11EK1

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