

## PRODUCT SUMMARY

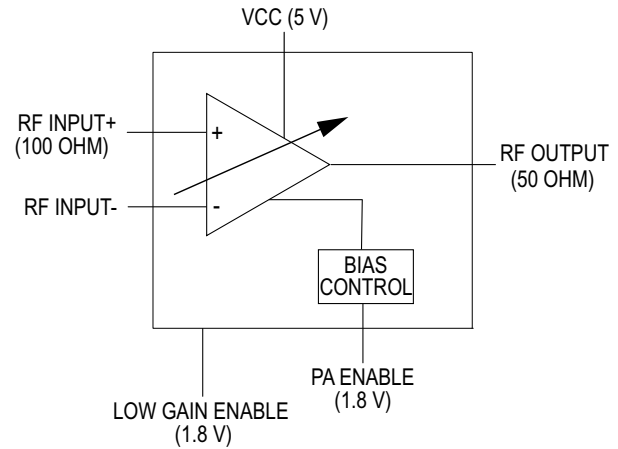
# SKY66072-11: 3100 to 4200 MHz Wide Instantaneous Bandwidth High-Gain Linear Amplifier

## Applications

- 4G LTE and 5G NR TDD systems
- Supports 3GPP Bands B42, B43, n77, and n78
- Driver amplifier for massive MIMO, macro base stations, and micro base stations

## Features

- Four programmable gain states: 40 dB to 31 dB
- Wide instantaneous signal bandwidth: 600 MHz
- High linearity: < -50 dBc open loop ACLR at +19 dBm, 400 MHz 5G, 9 dB PAR signal
- Fast turn-on time: 0.5  $\mu$ s typ., <1% dynamic EVM
- 100  $\Omega$  differential input ports, configurable to single-ended 50  $\Omega$
- 50  $\Omega$  single-ended output
- Integrated active bias: performance compensated over temperature
- Integrated enable on/off function: 1.8 V logic
- Single supply voltage: 5.0 V
- Compact (24-pin, 4 x 4 x 0.805 mm) package (MSL3, 260 °C per JEDEC J-STD-020)
- For RoHS and other product compliance information, see the [Skyworks Certificate of Conformance](#).



**Figure 1. Functional Block Diagram**

## Description

The SKY66072-11 is a wide instantaneous bandwidth, fully input/output matched power amplifier (PA) with high gain and linearity.

The PA is designed for 4G LTE and 5G NR TDD systems operating from 3100 to 4200 MHz. Active biasing circuitry is integrated to compensate PA performance over temperature, voltage, and process variation. The SKY66072-11 is part of a pin-to-pin compatible family of driver PAs, refer to Table 1.

**Table 1. Pin-to-Pin Compatible Driver PA Family**

Part Number	Frequency (MHz)	3GPP/5G Band
SKY66071-11	2300 to 2700	B7, B38, B40, B41, n41
SKY66072-11	3100 to 4200	B42, B43, n77, n78

## Ordering Information

Part Number	Description	Evaluation Board Part Number
SKY66072-11	3100 to 4200 MHz Wide Instantaneous Bandwidth High-Gain Linear Driver Amplifier	SKY66072-11EK1 (3100 to 4200 MHz)

Copyright © 2025, Skyworks Solutions, Inc. All Rights Reserved.

Information in this document is provided in connection with Skyworks Solutions, Inc., and its subsidiaries ("Skyworks") products or services. These materials, including the information contained herein, are provided by Skyworks as a service to its customers and may be used for informational purposes only by the customer. Skyworks assumes no responsibility for errors or omissions in these materials or the information contained herein. Skyworks may change its documentation, products, services, specifications or product descriptions at any time, without notice. Skyworks makes no commitment to update the materials or information and shall have no responsibility whatsoever for conflicts, incompatibilities, or other difficulties arising from any future changes.

No license, whether express, implied, by estoppel or otherwise, is granted to any intellectual property rights by this document. Skyworks assumes no liability for any materials, products or information provided hereunder, including the sale, distribution, reproduction or use of Skyworks products, information or materials, except as may be provided in Skyworks' Terms and Conditions of Sale.

THE INFORMATION IN THIS DOCUMENT AND THE MATERIALS AND PRODUCTS DESCRIBED THEREIN ARE PROVIDED "AS IS" WITHOUT WARRANTY OF ANY KIND, WHETHER EXPRESS, IMPLIED, STATUTORY, OR OTHERWISE, INCLUDING FITNESS FOR A PARTICULAR PURPOSE OR USE, MERCHANTABILITY, PERFORMANCE, QUALITY OR NON-INFRINGEMENT OF ANY INTELLECTUAL PROPERTY RIGHT; ALL SUCH WARRANTIES ARE HEREBY EXPRESSLY DISCLAIMED. SKYWORKS DOES NOT WARRANT THE ACCURACY OR COMPLETENESS OF THE INFORMATION, TEXT, GRAPHICS OR OTHER ITEMS CONTAINED WITHIN THESE MATERIALS. SKYWORKS SHALL NOT BE LIABLE FOR ANY DAMAGES, INCLUDING BUT NOT LIMITED TO ANY SPECIAL, INDIRECT, INCIDENTAL, STATUTORY, OR CONSEQUENTIAL DAMAGES, INCLUDING WITHOUT LIMITATION, LOST REVENUES OR LOST PROFITS THAT MAY RESULT FROM THE USE OF THE MATERIALS OR INFORMATION, WHETHER OR NOT THE RECIPIENT OF MATERIALS HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Skyworks products are not designed, intended, authorized, or warranted for use or inclusion in life support or life endangering applications, devices, or systems where failure or inaccuracy might cause death or personal injury. Skyworks customers agree not to use or sell the Skyworks products for such applications, and further agree to, without limitation, fully defend, indemnify, and hold harmless Skyworks and its agents from and against any and all actions, suits, proceedings, costs, expenses, damages, and liabilities including attorneys' fees arising out of or in connection with such improper use or sale.

Skyworks assumes no liability for applications assistance, customer product design, or damage to any equipment resulting from the use of Skyworks products outside of Skyworks' published specifications or parameters. Customers are solely responsible for their products and applications using the Skyworks products.

"Skyworks" and the Skyworks Starburst logo are registered trademarks of Skyworks Solutions, Inc., in the United States and other countries. Third-party brands and names are for identification purposes only and are the property of their respective owners. Additional information, including relevant terms and conditions, posted at [www.skyworksin.com](http://www.skyworksin.com), are incorporated by reference.