



SKYWORKS®

PRODUCT SUMMARY

SKY5A3036: Sky5® Front-End Module for LTE and NR Bands 1, 3, 25, 66, 32, 7, 40, and 41

Applications

- Automotive telematics enabled by 4G/5G Network Access Devices (NADs)

Features

- Multiple gain state average power tracking mode
- 50 Ω I/O impedance with internal dc blocking
- Integrated LNAs for Bands 1, 3, 25 (70), 66, 32, 7, 40, 41, 11, 21
- Two fully programmable Mobile Industry Processor Interface (MIPI®) v3.0 digital controls
- Continuous bias control via MIPI/RFFE interface
- Low supply voltage
- Low leakage current in power-down mode
- Temperature sensor
- Autonomous over voltage protection
- Integrated filters for Bands 1, 3, 25 (70), 66, 32, 7, 40, 41
- Integrated antenna and band select switches
- Small, low profile package:
 - 6.5 mm x 6.25 mm x 0.80 mm max.
 - 135-pad configuration
- MSL3, 260 °C per JEDEC J-STD-020
- Integrated duplexers
- SkyShield™ self-shielded module
- Automotive support:
 - AEC-Q104 Grade2
 - Production Part Approval Process (PPAP)
 - IMDS material declaration
- For RoHS and other product compliance information, see the [Skyworks Certificate of Conformance](#)

Description

The SKY5A3036 front-end module (FEM) is a fully matched, 135-pad Dual-Sided Mold Grid Array (DSMGA) module developed for 4G LTE and 5G New Radio (NR) applications. It supports 2G/3G/4G/5G for automotive, telematics, and NAD. The SKY5A3036 is part of our Sky5® product portfolio.

The FEM consists of PA blocks, LNA blocks, RF inputs and outputs matched to 50 Ω , two MIPI standard digital control blocks, and integrated duplexers for the FEM for LTE Bands 1, 3, 25 (70), 66, 32, 7, 40, and 41.

The enhanced SKY5A3036 architecture covers multiple bands and meets the spectral linearity requirements of LTE QPSK, 16 QAM and 64 QAM modulations and NR DFTS-OFDM and CP-OFDM modulations up to 190 MHz bandwidth.

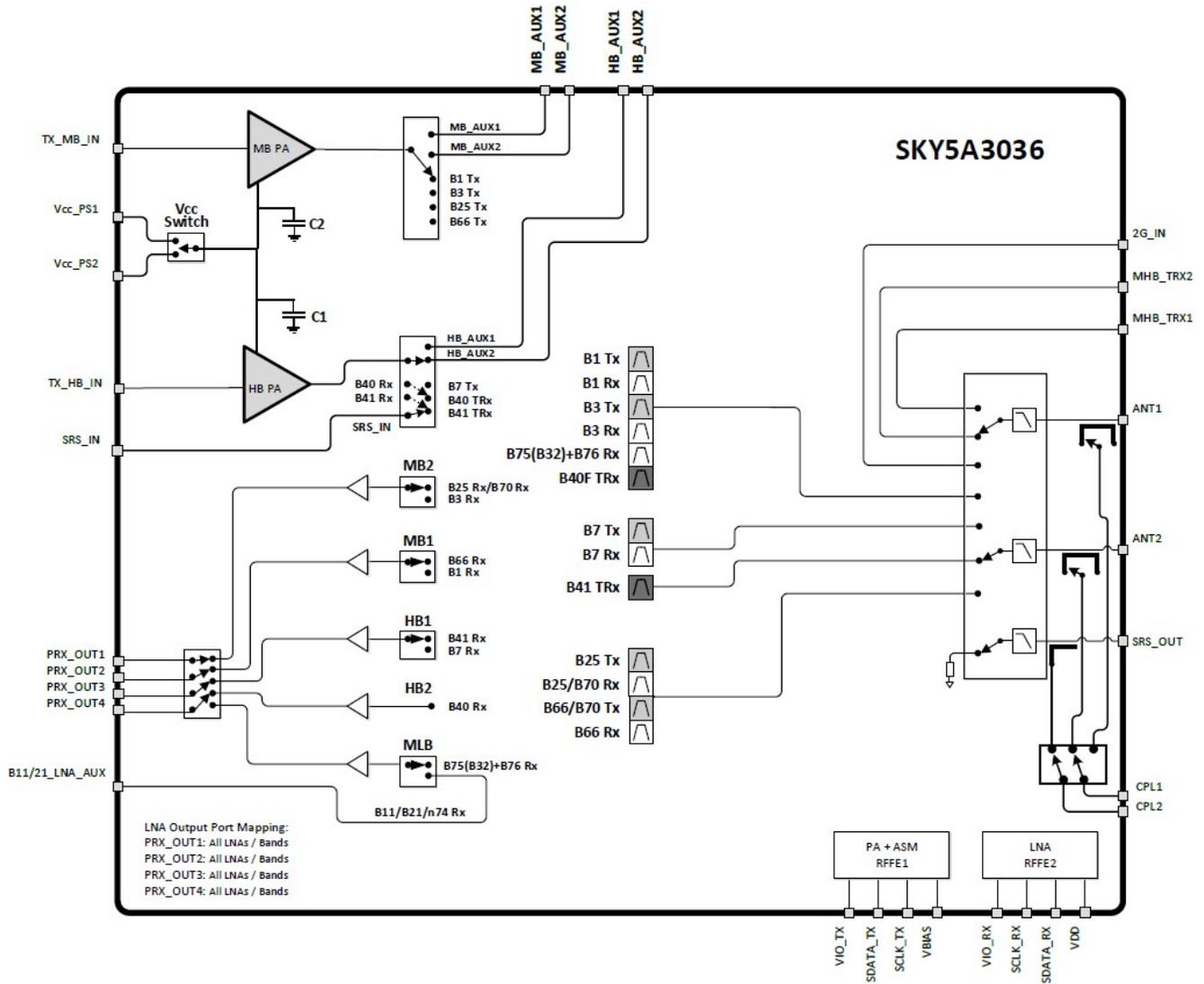


Figure 1. Functional Block Diagram

Ordering Information

Part Number	Description	Evaluation Board Part Number
SKY5A3036	Sky5® Front-End Module for LTE and NR Bands 1, 3, 25, 66, 32, 7, 40, and 41	SKY5A3036-EK1

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