

PRODUCT SUMMARY

SKY77652-31: NR Power Amplifier Module for ENDC Applications

Applications

- 5G NR handsets requiring 5G re-farm bands support for ENDC (E-UTRAN New Radio - Dual Connectivity)
 - 5G Bands n1, n2, n3, n7, n25, n30, n66
 - LTE Bands B1, B2, B3, B4, B7, B25, B30, B40, B41, B66

Features

- 50 Ω input and output impedance, integrated DC blocking on all ports
- Fully programmable Mobile Industry Processor Interface (MIPI®) control
- Optimized for APT DC/DC operation
- Small, low profile package:
 - 3.65 mm x 4.0 mm x 0.75 mm
 - 28-pad configuration

5G Features

- Optimized for Average Power Tracking system
- Meets 3GPP 5G NR linearity and EVM requirements

Description

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The SKY77652-31 is a Power Amplifier Module (PAM) that supports 5G handsets and operates efficiently in NR mode when ENDC is required. The PAM consists of PA blocks for mid-bands and high-bands, a logic control block for multiple power control levels, and band enable functions.

RF I/O ports are internally matched to 50 Ω to minimize the number of external components.

Extremely low leakage current maximizes handset standby time.

The InGaP/GaAs die and passive components are mounted on a multi-layer laminate substrate and the assembly encapsulated in plastic over-mold.

5G NR

The SKY77652-31 meets spectral linearity requirements of NR modulation with DFT and CP OFDM modulations with up to 256 QAM constellations. The PAM supports various resource block allocations within 3GPP defined transmission bandwidth with good power-added efficiency.

Figure 1 is a functional block diagram of the SKY77652-31 module.

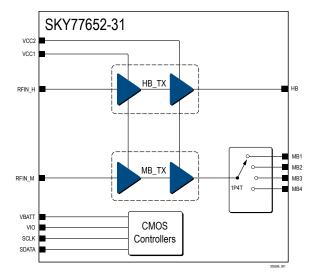


Figure 1. SKY77652-31 Block Diagram



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Ordering Information

Part Number	Part Description	Evaluation Board Part Number
SKY77652-31	NR Power Amplifier Module for ENDC Applications	SKY77652-31-EVB

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