

PRODUCT SUMMARY

SKY58261-11 Sky5® Front-end Module for 4G and 5G Applications

Applications

- Multi-band 4G and 5G mobile devices
- Handsets, data cards, Machine-to-Machine (M2M)

Features

- Full baseband-agnostic design
- Supports bands 4G/5G NR
 - B42, B43, B48, n48, n77, n78, and C-band
- Full power average power tracking (APT) support without digital predistortion (DPD)
- 50 ohm input/output impedance
- UHB L-PAMiF covering B42, B43, B48, n48, n77, and n78
- High performance APT PA core
- Low leakage current in power-down mode
- Integrated TX-RX switch
- Integrated Vcc switch for PA
- Integrated Vcc out for the power supply of external devices
- Integrated SRS_IN and SRS_OUT
- Two Integrated LNA, filter and switch paths support both primary and MIMO receive within the same module
- Integrated CPL_IN and CPL_OUT
- MIPI v2.1 compliant 52 MHz RFFESM bus
- MIPI v3.0 compliant RX function support
- Small, low profile package:
 - 5.0 mm x 3.0 mm x 0.7 mm max.
 - 30-pad configuration
 - LGA with conformal shielding
- For RoHS and other product compliance information, see the [Skyworks Certificate of Conformance](#).

Description

The SKY58261-11 Front-End Module (FEM) for LTE and NR is a new addition to the Skyworks Sky5® portfolio of 5G technology products. The device is packaged in a single 5.0 mm x 3.0 mm x 0.7 mm (max) form factor.

This versatile and fully-matched FEM supports ultra-high band 4G/5G and LTE/NR applications.

The 30-pad surface mount (SMT) module consists of PA blocks, input and output ports matched to 50 ohms, a MIPI standard digital control block, filter, antenna and TX-RX switches, and low noise amplifier (LNA).

Utilizing an enhanced architecture, the SKY58261-11 covers multiple bands and meets the spectral linearity requirements of CP-OFDM and DFTS-OFDM modulations with up to 100 MHz bandwidth and up to 273 resource block allocations.

Output power is controlled by varying input power and adjusting Vcc to maximize efficiency. Extremely low leakage current maximizes handset stand-by time.

Ordering Information

Part Number	Part Description	Evaluation Board Part Number
SKY58261-11	Sky5® Front-end Module for 4G and 5G Applications	SKY58261-11EVK

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