



SKYWORKS®

PRODUCT SUMMARY

SKY58286-11A: Sky5® Front-End Module for 4G and 5G Applications

Applications

- Handsets
- Data cards
- Machine-to-machine (M2M) applications

Features

- Supports bands: 4G/5G NR
 - B42, B43, B48, n48, n77, n78, and n79
- Full power average power tracking (APT) support
- High-efficiency APT PA core
- Fully baseband-agnostic design
- Supports 2CA n77/n79 downlink (DL)
- Supports fast SRS hopping timing requirements
- Low leakage current in power-down mode
- Integrated TX-RX switch
- Integrated SRS switch
- Integrated diplexers
- Two integrated LNAs, filter/switch paths support primary and MIMO receive within same module
- MIPI® v2.1 compliant 52 MHz RFFE bus
- MIPI v3.0 compliant RX function support
- Small, low profile package:
 - 3.8 mm x 3.8 mm x 0.79 mm max.
 - DSMGA with conformal shielding
- For RoHS and other product compliance information, see the [Skyworks Certificate of Conformance](#).

Description

The SKY58286-11A front-end module (FEM) for LTE and NR is part of our Sky5® product portfolio. Key advances compared to previous generation dual band UHB modules are integrated MIMO RX path, diplexers, wider bandwidth, two CA n77/n79 DL, and increased output power.

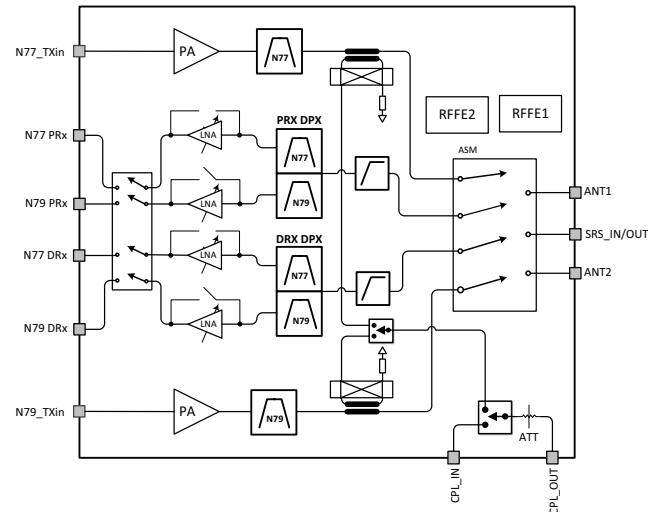


Figure 1. Functional Block Diagram

Higher power enables PC2 support for n78 and n79. This versatile and fully matched FEM supports multiband 4G/5G and LTE/NR applications.

Packaged in a single 3.8 mm x 3.8 mm x 0.79 mm (max.) form factor, the 51-pad surface mount (SMT) module consists of PA blocks, input and output matching, a MIPI standard digital control block, single-ended filters, antenna and band select switches, diplexers, and a low noise amplifier (LNA).

Utilizing an enhanced architecture, the SKY58286-11A 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	Description	Evaluation Board Part Number
SKY58286-11A	SKY58286-11A Sky5® Front-End Module for 4G and 5G Applications	SKY58286-11AEVB1

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