SKY58287-11: Sky5® Ultra High Band Front-End Module for 4G/5G Applications

Applications

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

Features

- P_{rated} = 33.5 dBm @ VCC = 5.5 V
- Supports radio access technology (RAT) and bands: 4G LTE/5G NR
  - B42, B43, B48, n48, n77, and n78
- Average power tracking (APT) with DPD
- Super high-performance PA core
- 3GPP power class one (PC1) compliance
- Integrated coupler
- Integrated high-performance filter to address system coexistence requirement
- MIPI® v2.1 compliant 52 MHz RFFE^{SM} bus
- Supports both 1.2 V and 1.8 V VIO
- Compact, low-profile package:
  - 5.0 mm x 3.0 mm x 0.681 mm
  - SkyShield™ shielded module
  - 30-pin LGA configuration
  - MSL3, 260 °C per JEDEC-J-STD-020
- For RoHS and other product compliance information, see the Skyworks Certificate of Conformance

Description

The SKY58287-11 is a high-performance UHB front-end module (FEM) that supports 4G LTE and 5G NR RAT. It complies to 3GPP stringent PC1 power and linearity requirements while delivering outstanding module efficiency. The SKY58287-11 is part of our Sky5® product portfolio.
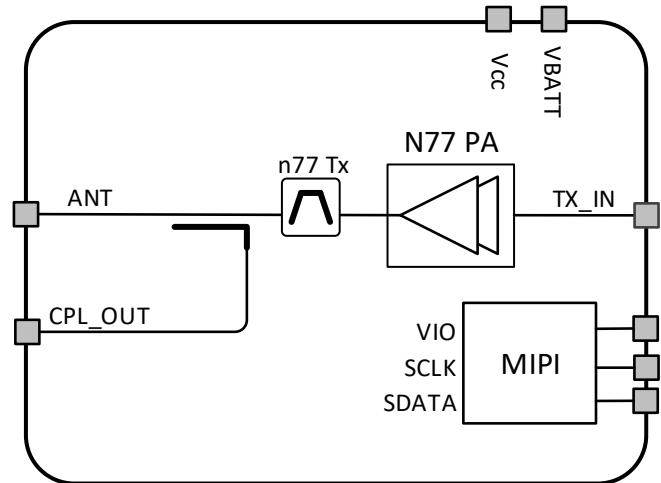

Figure 1. Functional Block Diagram

The device is packaged in a single 5.0 mm x 3.0 mm x 0.681 mm, 30-pin surface mount (SMT) form factor that integrates a high-performance UHB PA, filter, coupler, and platform-agnostic controller to enable UHB PC1 applications.

Utilizing Skyworks enhanced PA technology, the SKY58287-11 supports the PC1 spectral linearity requirements of CP-OFDM and DFTS-OFDM modulations with up to 100 MHz bandwidth and up to 273 resource block allocations.

February 3, 2026

Ordering Information

Part Number	Description	Evaluation Board Part Number
SKY58287-11	SKY58287-11: Sky5® Ultra High Band Front-End Module for 4G/5G Applications	SKY58287-11EVB1