

**PRODUCT SUMMARY**

# SKY58260-11: Sky5® Front-End Module for NR, LTE, WCDMA, and CDMA

## Applications

- Multi-band 4G/3G handsets
  - WCDMA Bands 5, 8 and CDMA BC0, BC10
- Long Term Evolution (LTE)
  - LTE Bands 8, 12, 13, 14, 20, 26, 28, 29, 71
  - Up to 20 MHz bandwidth /100 resource blocks
- 5G applications

## Features

- L-PAMiD covering B8, B12, B13, B14, B20, B26, B28, B29, B71
- MIPI® v2.1 compliant 52 MHz RFFE bus (Tx Control)
- MIPI® v3.0 compliant 52 MHz RFFE bus (Rx Control)
- One ET PA core
- Single switched LNA Rx output
- TX band select switch
- B29 Rx path switched through B28B Tx filter
- DP12T ASM with two ANT ports, DRx output and 2G input switch throw
- 10 LNA gain states
- Switchable 2G input
- 50 ohm input/output impedance with internal DC-blocking
- Continuous bias control via RFFE interface
- Low supply voltage
- Low leakage current in power-down mode
- SkyShield™ shielded module
- Temperature sensor
- Integrated antenna and band select switches

## Features

- Integrated LNA with MIPI® control features
  - up to 10 gain modes
  - independent gain and bias control
- Small, low profile package
  - 6.4 mm x 5.0 mm x 0.85 mm (Max.)
  - 79-pad configuration (includes 54-pad ground array)
- Integrated single ended duplexers
  - Bands 8, 12, 13, 14, 20, 26, 28, 29, 71

## Description

The SKY58260-11 Front-End Module (FEM) is a fully matched, 79-pad surface mount (SMT) module developed for 5G / 4G / 3G / LTE / WCDMA / HSDPA / HSUPA applications. The FEM consists of PA blocks, input and output matching, a MIPI® standard digital control block, single-ended duplexers, antenna and band select switches, and low Noise amplifier (LNA) in a single 6.4 mm x 5.0 mm x 0.85 mm (Max.) package.

The SKY58260-11 is part of our Sky5® product portfolio.

The SKY58260-11 uses an enhanced architecture to cover multiple bands and meet the spectral linearity requirements of LTE QPSK, 16QAM, 64QAM, 256QAM modulations with up to 20 MHz bandwidth and up to 100 resource block allocations. Output power is controlled by varying the input power and VCC is adjusted using an ET modulator to maximize efficiency. Extremely low leakage current maximizes handset standby time.



Skyworks Green™ products are compliant with all applicable legislation and are halogen-free. For additional information, refer to *Skyworks Definition of Green™*, document number SQ04-0074.

## Ordering Information

Part Number	Product Description	Evaluation Board Part Number
SKY58260-11	Front-End Module	SKY58260-11EK1

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