

PRODUCT SUMMARY

# SKY13744-11: RX Diversity FEM with Carrier Aggregation (B26, B8, B20, B1/4, B3, and B7)

## Applications

- Antenna cable loss compensation circuit for LTE data antenna
- 3G/4G multimode cellular tablets and handsets (LTE, UMTS, CDMA2000, EDGE, and GSM)
- Carrier aggregation (LB/MB/HB)
- Embedded data cards

## Features

- RX diversity FEM with six selectable filters and LNA paths, and three Aux paths
- Integrated SAW filter and discrete LNA gain stage
- SAW filters:
  - B26 (859 to 894 MHz)
  - B8 (925 to 960 MHz)
  - B20 (791 to 821 MHz)
  - B1/4 (2110 to 2170 MHz)
  - B3 (1805 to 1880 MHz)
  - B7 (2620 to 2690 MHz)
- Integrated MIPI interface
- Small (5 × 3 × 0.75 mm) 29-lead MCM package (MSL3, 260 °C per JEDEC J-STD-020)



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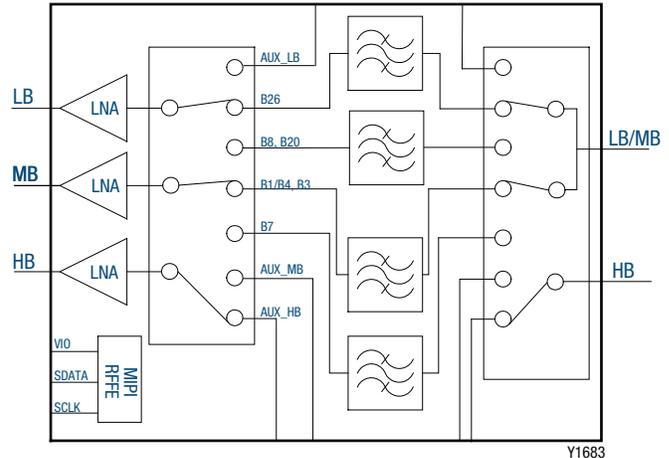


Figure 1. SKY13744-11 Block Diagram

## Description

The SKY13744-11 is an LNA diversity module to be used in a cellular mobile device. It supports cellular diversity receiver and localization service receiver functions.

It is compatible with Third Generation Partnership Project (3GPP), Global System for Mobile Communications (GSM), Wide Band Code Division Multiple Access (WCDMA), and Long-Term Evolution (LTE) standards and supports the following service bands: B26, B8, B20, B1/4, B3, and B7 for the cellular part.

The SKY13744-11 is packaged in a small 5 × 3 × 0.75 mm, 29-lead surface-mount package. The part is controlled by an integrated Mobile Industry Processor Interface (MIPI) decoder. There are separate control registers for independent control of low band, middle band, and high band. The part can operate over the temperature range of -30 °C to +85 °C.

A functional block diagram is shown in Figure 1.

## Ordering Information

Model Name	Manufacturing Part Number	Evaluation Board Part Number
SKY13744-11: RX Diversity FEM	SKY13744-11	TW22-D275-001

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