

**PRODUCT SUMMARY**

# SKYA25000: Low-Band LNA Front-End Module (B26/B5/B18/B19, B8, B20, B12/13/17, B28A, B28B, and B29)

**Applications**

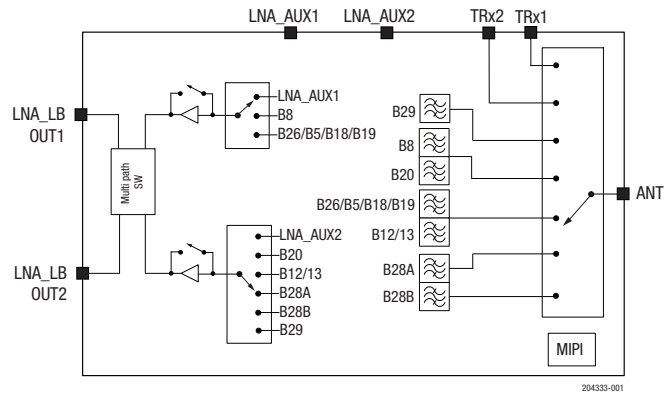
- Diversity antenna cable or PCB trace loss compensation
- 3G/4G multimode automotive telematics (LTE, UMTS, CDMA2000, EDGE, and GSM)
- Embedded data cards

**Features**

- Rx diversity FEM with seven selectable filters and LNA paths, two Auxiliary ports for extended band support
- Low insertion loss
- High performance TC-SAW filter technology
- High performance variable gain LNAs
- SAW filters:
  - B29 (717 to 728 MHz)
  - B12/13/B17 (729 to 756 MHz)
  - B28A (758 to 788 MHz)
  - B28B (773 to 803 MHz)
  - B20 (791 to 821 MHz)
  - B26/B5/B18/B19 (859 to 894 MHz)
  - B8 (925 to 960 MHz)
- Integrated MIPI® interface
- Small (4.0 × 3.0 × 0.7 mm [max]) 24-lead MCM package (MSL3, 260 °C per JEDEC J-STD-020)



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**Figure 1. SKYA25000 Block Diagram**

**Description**

The SKYA25000 is an LNA diversity module used in automotive telematics devices.

It is compatible with 3GPP GSM, WCDMA, and LTE standards and supports the following bands: B26/B5/B18/B19, B8, B20, B12/13/B17, B28A, B28B, and B29.

The SKYA25000 is packaged in a small 4.0 × 3.0 × 0.7 mm, 24-lead surface-mount package. No external DC blocking capacitors are required on the RF paths as long as no DC voltage is applied. The part can operate over the temperature range of -40 °C to +95 °C.

A functional block diagram is shown in Figure 1.

## Ordering Information

Part Number	Product Description	Evaluation Board Part Number
SKYA25000	Low-Band LNA Front-End Module	SKYA25000EK1

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