

PRODUCT SUMMARY

SKY96504-11: 0.4 to 2.7 GHz LTE Diversity Receive Module with MIPI® RFFE Interface

Applications

- 2G/3G/4G multimode cellular tablets and handsets (GSM, EDGE, LTE, UMTS, CDMA2000)
- Embedded data cards

Features

- Broadband frequency range: 0.4 to 2.7 GHz
- High isolation and linearity
- Integrated, programmable MIPI Version 2.0 interface
- Multi-ON switch technology to enable carrier aggregation
- High-performance TC-SAW filter technology
- Carrier aggregation support for B1+B3+B7, B7+B40, B40+B41, B1+B3+B26/B8, B34+B39+B41, B1+B3+B40, and B1+B3+B41
- Five linear AUX ports with isolation greater than 20 dB @ 2.7 GHz:
 - AUX2, AUX3, and AUX4 (400 to 1000 MHz)
 - AUX1 and AUX5 (1800 to 2700 MHz)
- Small QFN (24-pin, 3.5 x 3.0 x 0.65 mm) package (MSL3, 260 °C per JEDEC J-STD-020)
- Rx Diversity FEM with integrated bands:
 - B8 (925 to 960 MHz)
 - B26 (869 to 894 MHz)
 - B3 (1805 to 1880 MHz)
 - B39 (1880 to 1920 MHz)
 - B1 (2110 to 2170 MHz)
 - B34 (2010 to 2025 MHz)
 - B41 (2496 to 2690 MHz)
 - B40 (2300 to 2400 MHz)
 - B7 (2620 to 2690 MHz)
- For RoHS and other product compliance information, see the [Skyworks Certificate of Conformance](#)

Description

The SKY96504-11 is a low-band single-pole, six-throw (SP6T) and a high-band single-pole, eight-throw (SP8T) antenna switch module with integrated filters and a Mobile Industry Processor Interface (MIPI), Version 2.0. Receive filters for bands 8, 26, 3, 39, 1, 34, 41, 40, and 7 are integrated into the module.

Using advanced switching technologies, the SKY96504-11 maintains low insertion loss and high isolation for receive switching paths. The high-linearity performance and low insertion loss achieved by the SKY96504-11 makes it an ideal choice for UMTS, CDMA2000, and LTE applications.

Switching is controlled by an integrated MIPI interface. Depending on the logic applied to the decoder, the antenna pin is connected to up to 2 of 13 switched RF ports using a low insertion loss path, while the paths between the antenna pin and the other RF pins are in a high isolation state. No external DC blocking capacitors are required on the RF paths.

The SKY96504-11 is manufactured in a compact, 3.5 x 3.0 x 0.65 mm, 24-pin surface-mount Quad Flat No-Lead (QFN) package.

Ordering Information

Part Number	Product Description	Evaluation Board Part Number
SKY96504-11	LTE Diversity Receive Module with MIPI RFFE Interface	SKY96504-11EK1



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