

PRODUCT SUMMARY

SKY66422-11: 860 to 930 MHz RF Front-End Module

Applications

- LP-WAN devices
- Internet of Things
- Smart meters
- Industrial applications
- Range extender

Features

Integrated PA with +20 and +22 dBm output power (different BOMs are used to optimize efficiency):

- Integrated low-loss transmit bypass path: < 2.2 dB
- Integrated LNA with noise figure of 1.7 dB (typical)
- Single-ended 50 Ω transmit/receive RF interface
- Fast turn-on/turn-off time: 20 μ sec (typical)
- Supply voltage: 2.5 to 3.6 V
- Sleep mode current: 0.4 μ A (typical)
- MCM (16-pin, 3.0 x 3.0 x 0.75 mm) NiPdAu plated package (MSL3, 260 $^{\circ}$ C per JEDEC J-STD-020)



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.

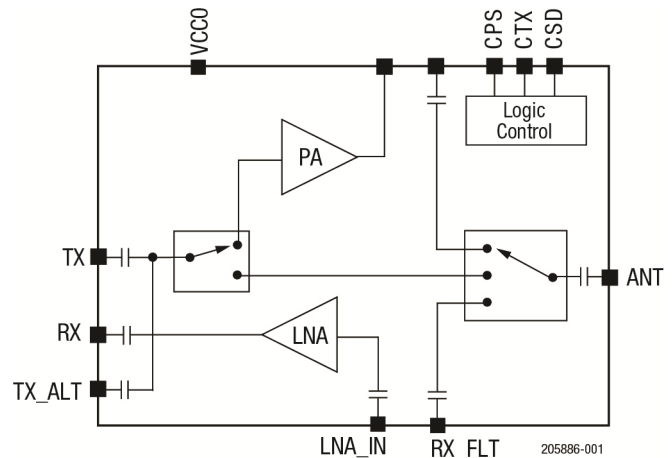


Figure 1. SKY66422-11 Block Diagram

Description

The SKY66422-11 is a high-performance, highly integrated RF front-end module designed for high-power Industrial, Scientific, Medical (ISM) band applications operating in the 860 to 930 MHz frequency range.

The SKY66422-11 is designed for ease of use and maximum flexibility with fully matched 50 Ω TX and RX inputs, and digital controls compatible with 1.6 to 3.6 V CMOS levels.

The RF blocks operate over a wide supply voltage range from 2.5 to 3.6 V allowing the SKY66422-11 to be used in battery powered applications over a wide spectrum of the battery discharge curve.

The SKY66422-11 is packaged in a 16-pin, 3.0 x 3.0 x 0.75 mm Multi-Chip Module (MCM) package.

Figure 1 shows the SKY66422-11 block diagram.

Ordering Information

Part Number	Product Description	Evaluation Board Part Number
SKY66422-11	+20 dBm RF Front-End Module 900 to 930 MHz	SKY66422-11EK2
SKY66422-11	+20 dBm RF Front-End Module 868 MHz +22 dBm RF Front-End Module 868 to 915 MHz	SKY66422-11EK1

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