

PRODUCT SUMMARY

SKY66122-11: 863 to 928 MHz Wi-SUN Front-End Module

Applications

- Range extender
- Smart meters
- In-home appliances
- Smart thermostats

Features

- Output power: +30 dBm, Wi-SUN OFDM Option 1 MCS0
- Output power: +30 dBm, Wi-SUN OFDM Option 1 MCS3
- Output power: +25 dBm, Wi-SUN OFDM Option 3 MCS6
- Integrated LNA with 2.5 dB noise figure (typical)
- TX and RX power limiters for maximum ruggedness
- Integrated power detector
- Single-ended 50 Ω RF interface
- Supply voltage: 3.0 V to 5.0 V
- Sleep mode current: < 1 μA
- Small MCM (6 x 6 x 0.9 mm [nominal]) package (MSL3, 260 °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.

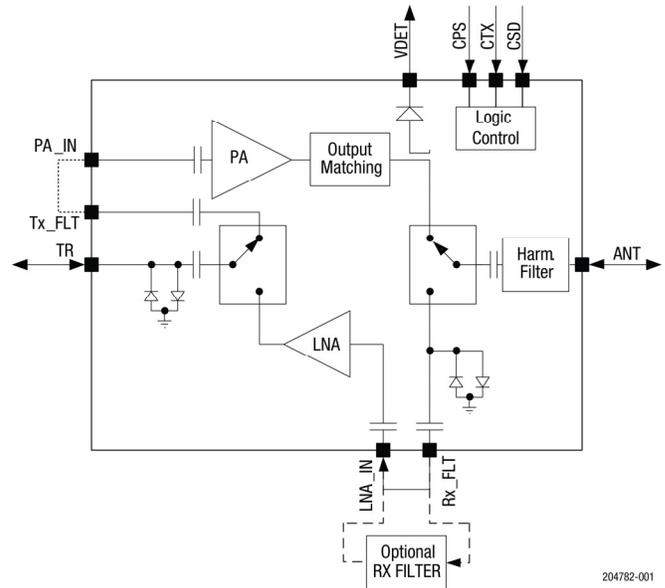


Figure 1. SKY66122-11 Functional Block Diagram

Description

The SKY66122-11 is a high-performance, highly integrated RF front-end module (FEM) designed for high-power Industrial, Scientific, Medical (ISM) band, Wi-SUN, and other IOT applications operating in the 863 to 928 MHz frequency range.

The SKY66122-11 is designed for ease of use and maximum flexibility with fully matched, 50 Ω RF input and output, and digital controls compatible with 1.6 to 3.6 V CMOS levels.

The RF blocks operate over a wide supply voltage range from 3.0 to 5.0 V that allows the SKY66122-11 to be used in battery powered applications over a wide spectrum of the battery discharge curve.

The SKY66122-11 is packaged in a 36-pin, 6 x 6 x 0.9 mm (nominal) Multi-Chip Module (MCM), which allows for a highly manufacturable, low-cost solution.

A functional block diagram of the SKY66122-11 is shown in Figure 1.

Ordering Information

Part Number	Product Description	Evaluation Board Part Number
SKY66122-11	863 to 928 MHz Wi-SUN Front-End Module	SKY66122-11EK1

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