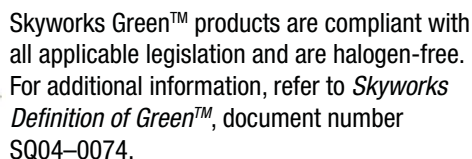


## SKY85310-11: 2.4 GHz, 256 QAM WLAN/Bluetooth® Front-End Module

- WiFi-enabled smartphones, tablets, and mobile/portable devices
- System-in-Package (SiP) modules for embedded systems

- Integrated high-performance 2.4 GHz PA, harmonic filter, LNA with bypass, and T/R switch
- Fully matched input and output
- LNA with integrated bypass mode
- High-performance SP3T switch to support Bluetooth/WiFi functions
- Integrated positive slope power detector
- Transmit gain: 29 dB @ 3.3 V
- Receive gain: 12 dB
- Output power: +18 dBm @ 1.8% EVM, MCS8
- Output power: +19 dBm @ 3% EVM, MCS7
- Small, QFN (16-pin, 3 x 3 mm) package (MSL1, 260 °C per JEDEC J-STD-020)



The SKY85310-11 is a complete 802.11b/g/n 256 QAM WLAN RF front-end module (FEM) with a Bluetooth port. The device provides all the functionality of a fully matched power amplifier (PA), power detector, harmonic filter, low-noise amplifier (LNA), and single-pole, triple-throw (SP3T) switch.

The SKY85310-11 provides a complete 2.4 GHz WLAN RF solution from the output of the transceiver to the antenna, and from the antenna to the input of the transceiver. The LNA increases the receive sensitivity of embedded solutions to improve range or to overcome the insertion loss of cellular filters (often included for mobile applications).

The SKY85310-11 also includes a transmitter power detector with 20 dB of dynamic range, and a digital enable control for transmitter power ramp on/off control.

The device is provided in an ultra-compact, 16-pin 3 x 3 mm Quad Flat No-Lead (QFN) package. A functional block diagram is shown in Figure 1.

Ordering Information

Model Name	Manufacturing Part Number	Evaluation Board Part Number
SKY85310-11: 2.4 GHz Front-End Module	SKY85310-11	SKY85310-11EK1