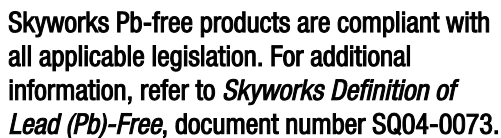


# SKY85303-11: 2.4 GHz, 256 QAM WLAN/Bluetooth® Front-End Module

- 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
- Transmit loopback mode
- Integrated positive slope power detector
- Transmit gain: 26 dB
- Receive gain: 14 dB
- Output power:
  - +18 dBm @ 1.8% EVM, MCS8, HT20
  - +19 dBm @ 3% EVM, MCS7, HT20
- Direct connection to battery with 3.6 V nominal supply
- Small, QFN (16-pin, 2.5 x 2.5 x 0.4 mm) package (MSL1, 260 °C per JEDEC J-STD-020)



The SKY85303-11 is a complete 802.11b/g/n 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 SKY85303-11 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 2.5 x 2.5 x 0.4 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
SKY85303-11 2.4 GHz Front-End Module	SKY85303-11	SKY85303-11-EVB