PRODUCT SUMMARY

SKY85753-11: 5 GHz, 802.11n/ac Front-End Module

Applications
- 802.11ac set-top boxes, networking, and personal computer systems
- PC cards, PCMCIA cards, mini-cards, and half mini-cards
- WLAN enabled wireless video systems

Features
- Fully matched, with integrated 5 GHz PA, LNA with bypass mode, and SPDT switch
- Integrated, positive slope logarithmic power detector. Detector output reverts to high impedance when not in use.
- Transmit gain: 28 dB
- Receive gain: 12 dB
- Output power: +21 dBm, MCS7, HT40
- Output power: +20 dBm, MCS9, VHT80
- Small QFN (16-pin, 2.3 × 2.3 × 0.33 mm) package (MSL1, 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.

Description
The SKY85753-11 is a highly-integrated, 5 GHz front-end module (FEM) incorporating a 5 GHz single-pole, double-throw (SPDT) transmit/receive (T/R) switch, a 5 GHz low-noise amplifier (LNA) with bypass, and a 5 GHz power amplifier (PA) intended for mobile/portable 802.11n/ac applications and systems.

An enable/disable function is included that allows power savings during off mode. An integrated logarithmic power detector with 20 dB of dynamic range is included to provide closed-loop power control within the system when operating in either high power mode or power save mode.

The device is provided in a compact, 16-pin, 2.3 × 2.3 × 0.33 mm Quad Flat No-Lead (QFN) package. A functional block diagram is shown in Figure 1.
## Ordering Information

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