

PRODUCT SUMMARY

SKY77807 Quad-Band Power Amplifier Module for FDD/TDD LTE (Tx Bands 7, 38, 40, 41)

Applications

- Multi-band 4G handsets
- Long Term Evolution (LTE)
 - Up to 20 MHz bandwidth/ 100 resource blocks

Features

- Envelope Tracking (ET) FDD band
- Average Power Tracking (APT) for TDD/FDD bands
- 50 ohm input/output impedance with internal DC-blocking
- Fully programmable Mobile Industry Processor Interface digital control
- Continuous bias control for 3G/4G PA High Power Mode via MIPI/RFFE interface
- Low Supply voltage
- Low voltage support (0.6 V) for APT/SMPS applications
- Low Leakage current in power-down mode
- Temperature Sensor
- Integrated TDD TX-Rx switch for single SAW architecture
- Low voltage support for APT/SMPS applications
- Small, low profile package
 - 4.0 x 3.0 x 1.0 (Max.) mm
 - 24-pad configuration
- For RoHS and other product compliance information, see the [Skyworks Certificate of Conformance](#)

Description

The SKY77807 Quad-Band Power Amplifier Module (PAM) is a fully matched, 24-pad surface mount module developed for 4G LTE applications. The PAM consists of PA blocks, input and output matching, and a MIPI standard logic control block for multiple power control levels, output input switch control in a single 4.0 mm x 3.0 mm x 1.0 (Max.) mm package.

The SKY77807 uses an enhanced architecture to cover multiple bands and meet the spectral linearity requirements of LTE QPSK and 16QAM modulations with up to 20 MHz bandwidth and up to 100 resource block allocations. Output power is controlled by varying the input power and VCC is adjusted using an ET modulator or DCDC converter to maximize efficiency for each power level. Extremely low leakage current maximizes handset standby time.

Ordering Information

Product Name	Order Number	Evaluation Board Part Number
SKY77807	SKY77807	



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