TriQuint

TQP887052
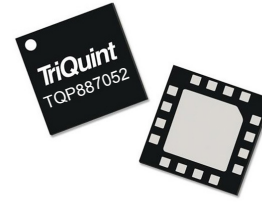## 802.11ac, 802.11n WLAN Front End Module

Applications

- IEEE 802.11ac, 802.11n WLAN Applications
- Single-Chip RF Front-end Module
- Wireless LAN Systems
- Portable Battery-Powered Equipment

16 pin, 2.5x2.5 mm QFN package

Product Features

- Fully Integrated, 802.11ac front-end module
- Internally matched input/output
- Temperature Compensated Bias Network
- Single battery voltage of 3.0V- 4.2V
- Leadless 2.5 x 2.5 x 0.40 mm SMT Pb-Free
- Typ. EVM = -37dB, 256QAM/MCS9 802.11ac
- Typ. Pout = 15.5dBm, 256QAM/MCS9 802.11ac
- Typ. Pout = 17dBm, EVM = -35dB, 64QAM/MCS7
- Typ. Pout = 19dBm, EVM = -30dB, 64QAM/54Mbps

Functional Block Diagram

Top View
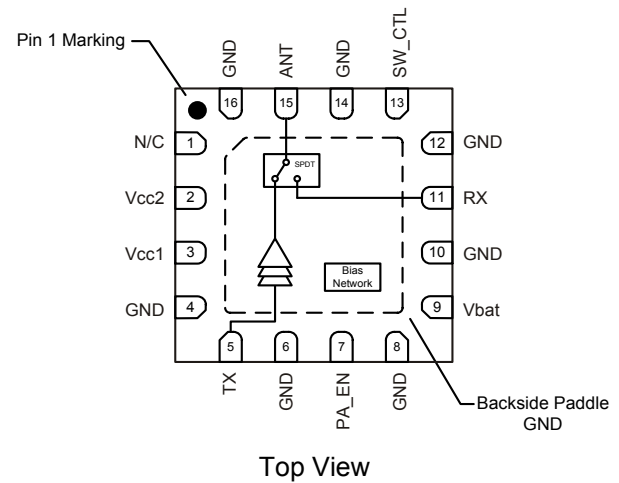
General Description

The TQP887052 is a full WLAN front-end module in an ultra small 2.5 x 2.5 mm footprint package for 802.11ac applications. The module contains a 5 GHz PA and an SPDT switch. The architecture and interface are optimized for next generation WLAN integration into handset devices.

The TQP887052 features chipset-specific compatible control voltages to facilitate ease of use. With its low power dissipation, the front-end module contributes to the extended battery life of next generation WLAN solutions.

This TQP887052 is manufactured using TriQuint's high-reliability HBT and E/D pHEMT technologies. The module is assembled in an ultra thin profile 16 pin, 2.5mm x 2.5mm x 0.40mm QFN package that is Pb free and RoHs compliant.

Pin Configuration

Pin No.	Label
4, 6, 8, 10, 12, 14, 16	GND
2	VCC2 (PA stage 3 bias)
3	VCC1 (PA stages 1, 2 bias)
5	TX input
7	PA_EN
9	VBAT
11	RX output
13	SW_CTL
15	ANT
17	FEM GND

Ordering Information

Part No.	Description
TQP887052	WLAN Front End Module
Standard T/R size = 2500 pieces on a 7" reel	