

### Applications

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

### Product Features

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

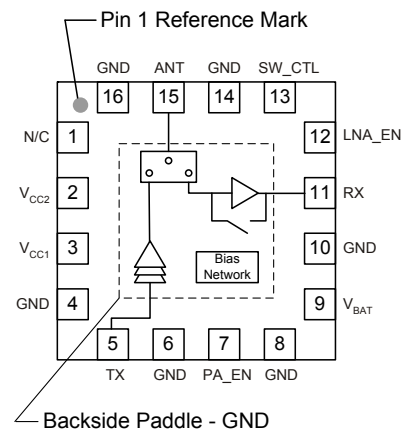
### General Description

The TQF7062 is full WLAN front-end module in an ultra-small 2.5mm x 2.5mm footprint package for 802.11ac applications. The TQF7062 contains 5GHz PA, LNA, and an SPDT switch. The architecture and interface are optimized for next generation WLAN integration into handset devices.

The front-end module 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.

The front-end module is manufactured in TriQuint's high-reliability HBT and E/D pHEMT technologies and is assembled in ultra-thin profile 2.5mm x 2.5mm x 0.40mm QFN - 16 Pb-Free Package.

### Functional Block Diagram



### Pin Configuration

Pin No.	Label
1	N/C
2	V <sub>CC2</sub> (PA stage 3 bias)
3	V <sub>CC1</sub> (PA stages 1, 2 bias)
5	TX input
7	PA_EN
9	V <sub>BAT</sub>
11	RX output
12	LNA_EN
13	SW_CTL
15	ANT
4, 6, 8, 10, 14, 16	GND
Backside Pad	GND

### Ordering Information

Part No.	Description
TQF7062	WLAN Front-End Module

Standard T/R size = 2500 pieces on a 7" reel